

BE & Conseil technique GK

Optimizing the **hull structure** of sailing ships

Thanks to TopCastor, Guillaume Kruyskamp optimizes quickly the structure of pleasure sailboats hulls of pleasure and communicates more easily with his customers.

Guillaume Kruyskamp works on his account since 1988 and acts as a design office for naval architects and shipyards. He specialized in the study of the structures of large pleasure sailing ships, about 25-45 m. long.

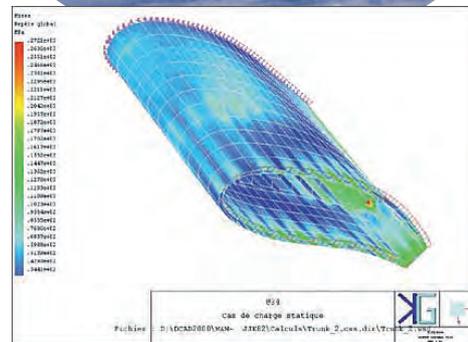
A good load distribution over the hull

For some years already, he tried use TopCastor, a computational tool implemented in the CAD system TopSolid. A demonstration, organized in 2003 by Cetim in the presence of TopSolid's editors, made him take that step. Main assets of TopCastor (parametric modeling, associativeness...) allow to dimension and optimize quickly mechanical structures and components. "What I was interested in mainly, explains Guillaume Kruyskamp, was to use it for studying metallic structures, in particular for checking that when an important concentrated load is applied, it distributes well on all the

surrounding structure. He adds, the thing-in-itself is not extraordinarily complicated to compute by hand, but TopCastor allows to realize more quickly iterating loops with small variations".

Acting as public relations

While at use, TopCastor brought further advantages. From a purely technical point of viewplan, it allows first to go further and, if required, to argue on choices made until then by tradition. "This is reassuring for oneself", states Guillaume Kruyskamp. TopCastor also acts on the field of public relations. "The communication with the customers is much easier, notes Guillaume Kruyskamp, because they can see clearly



the influence of choices and variations. On the whole, I really do not regret my investment".

OUR CUSTOMER

Corporate name

BE & Conseil Technique GK

Activity

Design office specialized in pleasure boats

Country

France

Context

Guillaume Kruyskamp, living in La Rochelle (17), works with naval architects and shipyards, primarily on large pleasure sailboats from 25 to 45m long



Cetim's asset

As an Integrated solution, TopCastor profits from all functions of TopSolid for volume, surface and wireframe modeling. It offers automatic surface and volume meshing and integrates a materials database and a database of profiles which accept additions.