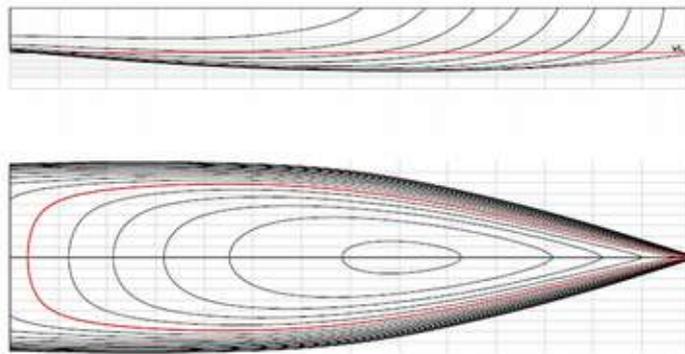




1001VELA_{cup} DESIGN CONTEST 2020

Entry:
CALIPSO



The team :

Team Leader: Domenico Castellano
Project Manager ITA38: Alessandro Smerchinich
Project Manager ITA48: Chiara Beghetti
Area Managers:
Fabio Beltrame
Valeria Marie Cantini
Pietro Casalone
Beatrice Fenu
Mattia Glorioso
Matteo Mastorakis
Beatrice Watty Gagliani

Team members

Camilla Cecchini Saulini, Alessandro Landra, Carmine De Stefano, Erveida Abazi, Loris Insinna, Matteo Olivieri, Alberto Lisi, Alessandro Cogo, Davide Sorli, Filippo Boukas, Laura Schiavuta, Marco Domenichelli, Marco Miglietta, Natalia Citarella, Rejhana Murati, Antonio Coluccia, Giovanna Lopresti, Domenico Catalano, Marco Fontana, Claudio Moscoloni, Gianpaolo Quattrone, Francesco Iacono, Oronzo Dell'edera, Pasquale Losurdo, Gabriele Bianco, Lorenzo Malagoli, Gianmario Ledda, Flavio Di Fede, Luca Zannotti, Andrea Ruggeri, Marco Puliti, Giovanni Santacroce, Antonio Squicciarini, Lorenzo Liboá, Emilio Viscovich, Filippo Pilato, Giorgio Maali, Ravi Teja Reddy Chinthala, Stefano Bisogno, Giorgio Tudisco, Andrea Strazzolini, Alberto Carluccio, Maia Vercelli, Kevin Tandurella, Carlo Trentalange, Francesco Seller, Matteo Filosa, Orazio Spataro, Alessandro Lombardo, Leonardo Pasquali, Alessio Giudice, Andrea Grosso, Aurelia Romeo, Davide Fina, Marco Lalloni, Umberto Mosca, Alice Rosiello, Davide Lavafila, Angelo Albano

The jury evaluation:

Grado di innovazione

Innovation degree

<<The project team has shown that they are at they are open to new innovative approaches. Within this project the innovative additive manufacturing approach has been used to manufacture the bearing of the bowsprit for the Gennaker and the rudder stock. The used material>>

<<Classic design, more iterative than innovative 3050>>

<<The main invention of the project is the introduction of basalt fibres for hull and deck, reducing the weight considerably compared to competitors. Another innovative approach is the use of Additive Manufacturing for some details, especially the rudder head. >>

<<6 su 10 – 6 on 10>>

<<Very interesting the application of Topological Optimization and Rapid Manufacturing related to small component of the boat. >>

Completezza e livello di approfondimento progettuale

Thoroughness level of the project

<<The project team worked methodically and systematically using the common product design approaches and tools. The team designed the boat ITA48 Calipso by the use of engineering calculation and simulation methods.



Bevor starting with manufacturing of the boat components a proof of (incomplete ?)>>

<< Out of the 5 competitors evaluated this one has the most complete attention to all aspects of the design. Hull design, hull construction, internal structure, deck, appendages, mast and rigging are all discussed in the report. Much is based on experience from previous designs, but there are also FEM computations of the structures including the appendages. CFD computations are made for the appendages and VPP predictions for the hull shape.>>

<<Ingegnerizzazione notevole ma rispetto agli altri, meno innovativo.

Interessante l'aspetto del design generativo di alcuni componenti.

Remarkable engineering but, compared to the others, less innovative.

Interesting aspect of generative design of some components (translated by the editor).>>

<<The main focus is related to the structural part of the design phase, very little about CFD analysis.>>

Qualità della rappresentazione del progetto

Project's quality of representation

<<The presented project report is well structured. the project implementation is well described. However, more technical design data would be desirable to get a deep insight in the developed approach.>>

<< The 63-page report is clear and easy to read. All aspects of design and manufacturing are discussed. >>

<<Impaginazione accattivante e buona documentazione del progetto.

Attractive layout and good documentation of the project (translated by the editor).>>

<<The report is well presented, all the figures help to better understand the explanations.>

Ranking :

2nd

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