

Off to New Shores

DINGHY, the demonstration model for biaxially curved, spherical shapes made of pneumatic structures, reinvents the world of rubber dinghies by eliminating the tube-like elements.



Traditional rubber dinghies are usually composed of tube-like elements. These trivial pneumatic structures give them a rather clumsy appearance, a high flow resistance and make them voluminous and space-consuming. On the other hand the elegant DINGHY, another demonstration model of a new technology, does not have any of these disadvantages.

Countless small tubes on the inside of the two-seater rowboat define its biaxially curved outer form as well as the wall thickness. Depending on the tractive forces, the tubes are fixed onto the inner membrane of the boat radially facing the center, and vertically to the surface. Their heights define the thickness of the wall. The outer cover is again connected to the exposed ends of the tubes. This procedure makes it possible to achieve pneumatic structures of any given spherical shape for the first time. DINGHY represents the large spectrum of possible uses for this process, for example for the production of furniture, formwork, car body parts, etc.

In addition to its very appealing appearance, DINGHY features all advantages of traditional rubber dinghies. It is filled with - clearly less - air, it is light, and can be folded and transported easily, it is very robust and - last but not least: it floats!



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