

# Sealver **Virtual reality** a key feature in the manufacturing processes

Sealver uses virtual reality in all the phases of the development and manufacturing of its jet-ski powered boats. Everything starts with the 3D digitisation of the jet-skis by Cetim Sud-Ouest.



© Sealver

## OUR CUSTOMER

**Corporate name**  
Sealver

**Workforce**  
15 people

**Business activity**  
Sealver, established in 2009, designs, manufactures and sells rigid-inflatable boats which can be powered by a jet-ski through the use of compatibility kits. Sealver produces around one hundred boats per year in its French factory based in Sanguinet, in the Landes department, and achieves 95% of its turnover on the export market. In 2009, a manufacturing site was inaugurated in Canada.

**S**ealver, a small-sized company based in the Landes French department, invented the Wave Boats, in other words, boats that are powered by a jet-ski. These boats can be separated from the jet-ski in no time, thereby allowing users to quickly switch between a boat outing with friends and solo sailing. So that they can choose their models, the future customers are invited to enter a virtual showroom where they can enjoy a 360° view of the boat attached to its jet-ski, and all this with every shape and colour detail. This virtual representation is made possible by Cetim Sud-Ouest specialists who digitise the geometry of the jet-skis in 3D to within one

millimetre. Millions of points are acquired with a Laser Scanner and then processed with suitable software in order to obtain a 3D CAD file which will be used by Sealver to design a hull and all the parts of the interface with the jet-ski.

## From design to production

*“Our boats are designed in a virtual world. We sail them in various wind, wave, balance and load conditions”*, explains Patrick Bardon, CEO of Sealver. The virtual reality software tools are also used for the aesthetic design of the boats and to select the materials and colours. The 3D digitisation and modelling steps are also used to design the moulds

and all the tools required for manufacturing. This allows Sealver to avoid the unexpected and reduce the development lead times and costs. Thanks to virtual reality, the production teams can especially identify the specific features of the next boats at an early stage in order to better prepare their manufacturing. 3D digital models showing transparent surfaces have also been created to allow the operators to get an accurate view of the cables and pipes that run below the hull.

## Cetim's asset

Cetim Sud-Ouest has the necessary equipment and software to perform the 3D digitisation and redesign of parts made of any material, without limitations in terms of dimensions and with different levels of accuracy.

