



VERTICE PUTS REAL-TIME 3D AT THE SERVICE OF SAUNIER DUVAL: REALISTIC 3D VISUAL OF THE HYDRAULIC BLOCK OF A BOILER



Study of the 3D presentation of a « hydraulic block of a boiler » of the manufacturer Saunier Duval

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Toulouse – November 26 2009 – Jean-Baptiste Baron, 3D designer at Baron Studios, has worked on the realistic presentation in 3D of a hydraulic block of a boiler thanks to **Nova for 3ds Max of Vertice**, creator and editor of the Nova real time 3D engine.

○ TARGET

This project, launched in March 2009 by **Saunier Duval**, French leader of the mural boiler on the market, had the ambition to explore new ways to present its products or components for its internal communication network.

Jean-Baptiste Baron had to take up the challenge to answer the principal constraints of the requirements document in order to make a realistic 3D modeling of a hydraulic system. There was a true technical challenge in term of computer 3D graphics and a practical interest for the customer:

- To provide to its internal network a realistic representation in 3D of a hydraulic block: to be able to turn around the block, to choose the angle, to make screen captures in high resolution.
- To create a file which is not demanding in graphic power: to make it displayable on any computer, including a not very powerful configuration.
- To create a "light" file: to facilitate the sending or the transfer.
- To simplify the launch of the file: so that it is easy to carry out, without having to install other files to visualize the image or the 3D rendering.

○ CHOICE

With his 10 years of expertise in 3D, **Jean-Baptiste Baron** and the **Nova for 3ds Max by Vertice** solution, were adopted to answer the specific constraints of Saunier Duval to get a real-time 3D version of the hydraulic block of a model of a boiler. Jean-Baptiste Baron had studied several software offers to finally retain only two of them, of which the solution Nova of Vertice. On his last phase of selection, Nova was selected because of its easiness compared to the second solution whose learning time was judged too long to meet the needs.

“This project was a true challenge! On the one hand, because it was my first large solo project. In addition, because the shape of the hydraulic block gives him the aspect of a tangle of dark and complex parts. It was necessary to succeed in recreating it right in order to emphasize this innovating part of a range of Saunier Duval boilers,” explains Jean-Baptiste Baron, computer graphics expert at Baron Studios.

Then, Jean-Baptiste Baron began the modeling of the hydraulic block in 3D: the part was extracted from a provided CAD model and proprietary to Saunier Duval manufacturing tool, and the first textures (texturing) were applied on the basis of photographs previously made from the real part. The whole having for objective to reproduce the most accurately possible the part such as one can perceive it as in reality.

Then, a technique of lighting was used to give relief to the unit, and a second layer of texture was applied to underline the lighting, to improve realism and to accentuate the effects of 3D and of perspective of the part.

The whole modeling process allowed to get a rendering with a rather advanced real-time lighting, before the ultimate stage consisting in exporting the 3ds Max file to Nova, to transform the realization into real-time 3D.

On the whole, it will have taken 2 months for the project to be carried out, including 1 full month dedicated to the 3D treatment, for the design of the hydraulic block of the boiler in real-time 3D.

○ BENEFITS

The use of the Nova real-time 3D solution has allowed a very simple integration and interfacing with 3ds Max, the ergonomics being of very good quality and the time of adaptation restricted to create the boiler part.

In addition, Vertice offers an interesting licensing model: once the license of the software bought, it is not necessary to pay any right of diffusion (royalties) for the 3D content.

Lastly, the Toulouse company has a team which is available and reactive to ensure a very good after-sales service.

“The extent of the real-time 3D project made the task delicate and it was important to be able to get to a result. Thanks to Nova, I succeeded in raising this challenge and I answered the requirements of a great name of the heating industry,” says Jean-Baptiste Baron, senior computer graphics expert at Baron Studios.

About Saunier Duval

For more than a century, for our wellbeing, Saunier Duval has dedicated all its energy to find the most innovative solutions for heating and warm water.

Leader on the market of the mural boilers as of today, Saunier Duval also offers a whole of solutions using renewable energies: solar heaters, heat pumps...

Its production site, based in Nantes, guarantees a true know-how, a quality and a reliability of the offered products. A permanent preoccupation with an excellence which allows Saunier Duval, mark of Valiant Group, to anticipate the customer needs and to always keep a length in advance.

About Vertice

Founded in 2002, Vertice is located in Toulouse. Vertice is a Young Innovating Company (JEI) which was elected in 2003 1st Innovating Company at the time of the Mêlée Numérique. Vertice develops and distributes the Nova range and accompanies its customers in the customization of applications. www.vertice.fr