



TopSolid

**Sherco: how TOPSOLID
supports the growth of a French
brand with international influence**

TopSolid

INTEGRATED
DIGITAL
FACTORY



ABOUT SHERCO

Sherco was founded in 1998 in Nîmes, France by Marc Teissier and Andreu Codina, both former trial riders. Today, **Sherco manufactures 25 models of trial and enduro motorcycles in its two factories in Nîmes, France and Barcelona, Spain.** Distributed in 66 countries, the French market represents only 15% of the brand's sales, as most of its customers are in the American continent, Australia and Japan, the "stronghold" country of motorcycles.



The name Sherco is a nod to the famous Sherpa motorcycles of the Bultaco brand from which Sherco took over the Barcelona site more than 10 years after its closure. Just like the Barcelona-based brand, year after year Sherco motorcycles have been winning in the trials, enduro and extreme enduro championships, as well as the Paris-Dakar. **The Sherco brand has become a benchmark in the enduro world, on par with Yamaha and Honda,** with the added pride of manufacturing French motorcycles.

With success on the circuits, comes an increase in demand. Sherco manufactures the engine parts and assembles the models itself. In the French factory, a 14,000m² building, it **manufactures engine crankcases and 4-stroke cylinder heads** as well as assembles enduro and trial motorcycles.



Machining

A strategic business for Sherco

René Gerber, the Machining Manager at Sherco shared with us the reasons that led him to choose a TopSolid solution. He manages the **development of the various machined parts necessary to manufacture engines**. In direct relation with the Management team, he manages a department of strategic importance to the company. Indeed, his objective is to optimize machining techniques to support the growth of the business while maintaining the quality and reliability for which Sherco motorcycle engines are known.

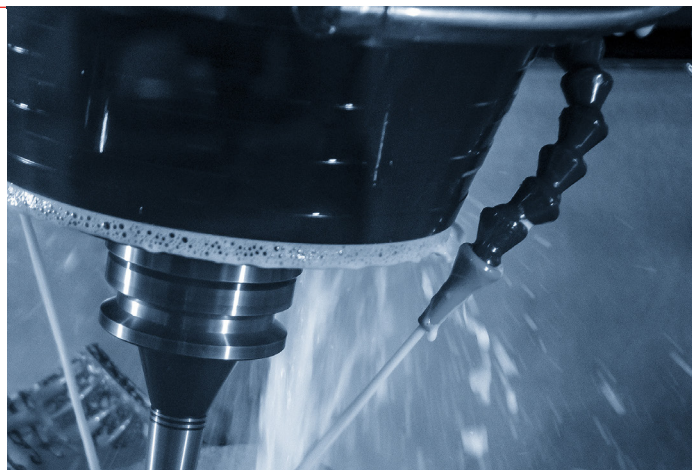
“ Sherco is going through a **very strong development phase**. Only a few years ago, approximately a dozen motorcycles were assembled every day. Today, it is more like 100 motorcycles and by the end of the year, **approximately 120 motorcycles will leave the factory per day**. ”

It was therefore necessary to find a **CAD/CAM tool that allows the development and production of high quality machined parts** for a constantly growing production.

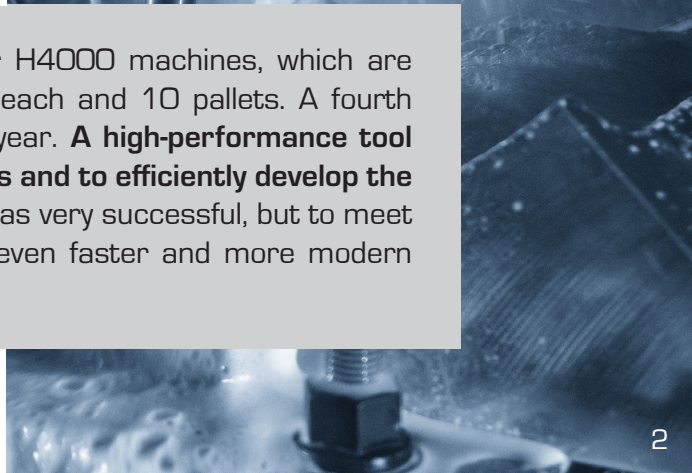
TOPSOLID

An indispensable programming tool

“ I have known TopSolid for a long time, being a former CAM trainer myself. When I joined Sherco, the company was already equipped with version 6 of TopSolid, so I opted for an upgrade to version 7. This initially involved a training phase for the in-house teams, but **today, TopSolid has become an indispensable programming tool for us**. ”



The factory located in Nîmes is equipped with 3 Heller H4000 machines, which are horizontal machining centers, equipped with 250 tools each and 10 pallets. A fourth machine is expected to be released by the end of the year. **A high-performance tool was therefore necessary to meet the growth challenges and to efficiently develop the programming capacity**. The former version of TopSolid was very successful, but to meet our growth and productivity challenges, we needed an even faster and more modern version.



Optimization of the adjustment phases for significant productivity increase



In order to save time, three things were important: **easy-to-use solution**, **format of the 3D models** to make them shareable and **level of reliability of the results**. This upgrade met these needs in addition to being perfectly compatible in terms of post-processor design. Therefore, there was **no problem with the relationship between CAM** (computer-aided manufacturing) **and the machines**, which represents a significant time saving upon implementation of the solution.

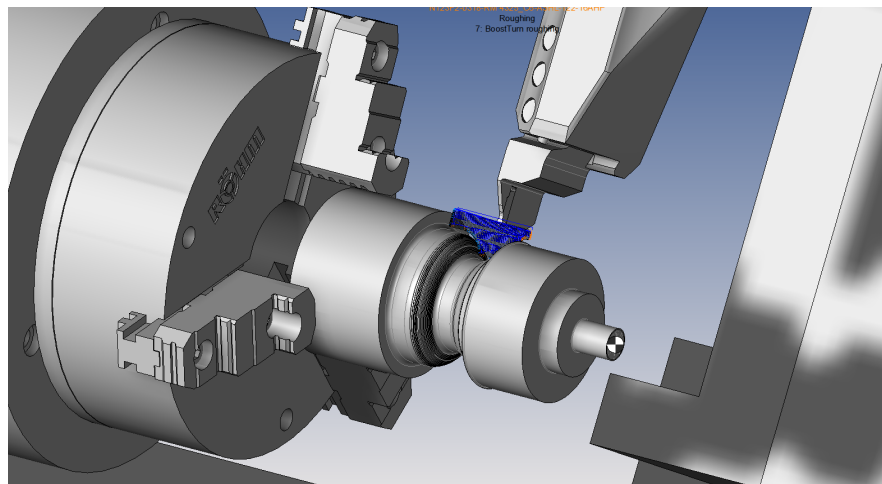
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“The switch to version 7, with the Windows multi-window feature, has encouraged young employees to use it, they are more familiar with this type of interface,» says René Gerber. **“The interfaces are very well done allowing you to share 3D files with the tooling suppliers, which is very practical.”**”

Thanks to TopSolid'Cam version 7 **Sherco has increased its production capacity from**

20 to 25%

with increasingly shorter adjustment phases and more and more successful results



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Finally, I will say that we spent a phenomenal amount of time in the start-up phases of launching new series.

Until very recently, 25% of our time was spent doing adjustments and checkings.

Today, we are up to 10% and this is perfect for achieving our growth

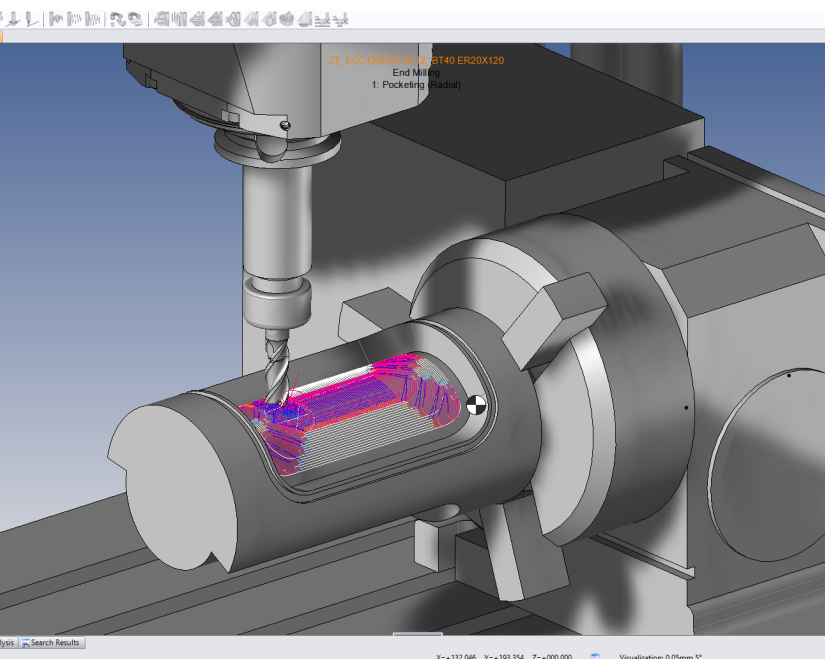
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Easy implementation by the TOPSOLID teams

The deployment of the solution and the training process for the users at Sherco were very quick. Within a few days, every employee was 100% operational.

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I was able to benefit from an initial training at the TopSolid training center in Saint-Quentin-Fallavier near Lyon, France. We have also organized a training session for the internal teams, and everything went very well. Trainers came to Sherco on several occasions, **the TOPSOLID teams have been very responsive in providing us with support** when we started to use the new version and even today when there are extremely complex parts to be machined. ”



Advantages of TopSolid'Cam version 7

- **Windows multi-window** feature: Allows you to view a 3D assembly in a window and at the same time zoom in on a specific part
- **A completed version of the milling process**
- **High computing power**
- Allows you to **view tooling and simulate programs** in an extremely qualitative way

René Gerber's opinion, Machining Manager:

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We are very satisfied with the TopSolid solution. It is easy to use for people who are familiar with machining. It has become an indispensable tool for us to go further in setting up programs. We could not do without TopSolid today !

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**Contact us for
more information!**

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