

The most powerful CAM software ever.



## ESPRIT and TORNOS make an **IDEAL PAIR** for **MEDICAL MACHINING**

WITH NO SHORTAGE OF demand for surgical applications and ever-more-sophisticated wares, the orthopedic industry is enjoying a healthy growth spurt.

Taking advantage of that growth is High Technology Manufacturing, or HTM, a French company headquartered in Péronnas — in the Ain region of Eastern France — that specializes in the production of orthopedic screws, as well as work for the military and aerospace industries.

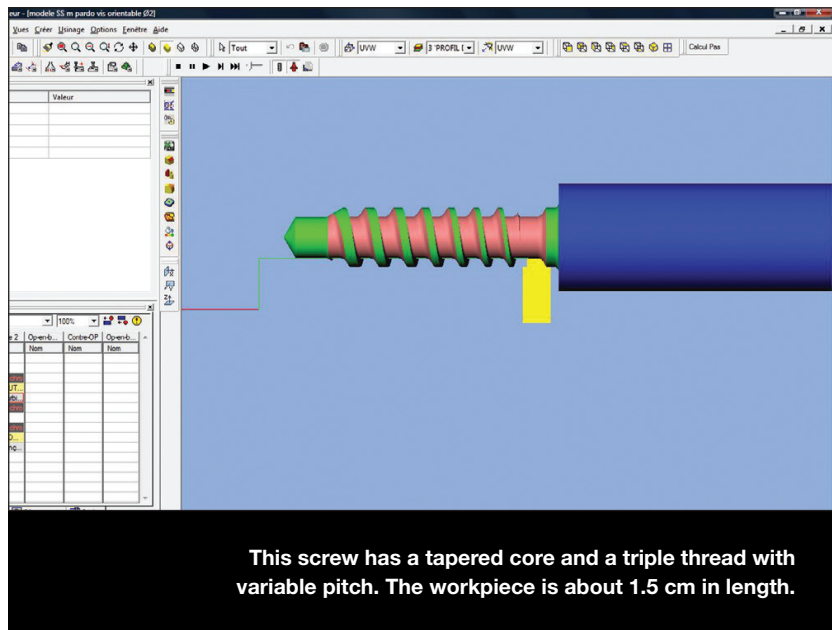
When it came to selecting new partners, HTM chose a machine by machine-tool-maker Tornos, and ESPRIT computer-aided-manufacturing (CAM) software, by DP Technology, for its programming needs.

HTM turns out more than 50,000 screws on an annual basis and sub-contracts a high proportion of that task to a large American group of companies leading the global distribution of products for the expanding niche market.

The ability to provide a comprehensive range of services — including machining, engraving, conditioning, and electrolytic polishing and sanding, among others — makes HTM a standout among the competition, which provides unrefined workpieces sans additional refinements.



*Thanks to an investment in ESPRIT CAM and a Tornos machine tool, machine changes are no longer required.*



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### THE RIGHT PAIR: ESPRIT AND TORNOS

One day, a Mr. Sibelle, the man in charge of CAD/CAM for HTM, chose Tornos as his machine supplier based on the impression that the functionality of its machines was well-suited to the medical sector.

“Very few companies are involved in the same field as we are, and only the Tornos team appeared able to come up with what we were looking for when we presented the problems associated with our screw production activities,” said Sibelle.

The solution to that problem was a DECO 13 purchased in 2006.

Throughout the transition phase, Sibelle said, HTM reaped the benefits of excellent technical support from the Tornos team based at St. Pierre-in-Faucigny. Sibelle also made a point of thanking Louis Bélet, a Swiss company renowned for the technical quality of its cutting tools, for its service.

### ESPRIT, YOUR REPUTATION PRECEDES YOU

Due to the complexity of the workpieces HTM manufactures, having a CAM system in place was beyond essential.

Talk of the ideal system stopped at ESPRIT.

When the staff at Tornos France recommended the software because some of its customers — all big names in the medical sector — were already using ESPRIT and had expressed their satisfaction in doing so, the choice was an easy one to make.

It was then that French ESPRIT reseller MHAC Technologies, which deals in the Rhône-Alpes region of France, emerged as the ideal partner with the right software.

Raphael Pardo, applications engineer at MHAC, in collaboration with Swiss ESPRIT reseller ICAM, created an ESPRIT/



Mr. Sibelle busy writing an Esprit program.



Mr. Jacques, machine-setter on the Tornos' DECO 13a.

TB-DECO application that automates the programming process for the small surgical screws.

Sibelle again mentioned the importance of good technical support: “Expertise, coupled with superb levels of availability on the part of MHAC Technologies, ensured an excellent collaboration.”

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### THE BENEFITS

Thanks to an investment in ESPRIT CAM and a Tornos machine tool, machine changes are no longer required.

“You save time! Before this innovation, some machining had to be done on machine A, followed by finishing operations on machine B,” said Salas, director of HTM. “Now our workpieces can be machined and finished all at one time, on one and the same machine.”

At the end of the day, the investment in machinery and CAM resulted in a time savings of 20 percent.

To quantify a job beforehand, HTM had to make an approximate estimate of the machining time required. With ESPRIT, the company can now precisely define how much time is needed to render any workpiece. Thanks to dead-on simulation, it is now also able to verify the feasibility of its machining operations without first having to operate the machine.

With ESPRIT, it is very easy to machine families of workpieces.

“A quick and simple function enables the operator to alter workpiece dimensions and to obtain a suitable machining program instantaneously,” Sibelle said. “In the past, we had

to create 20 different programs to suit 20 different sets of dimensions. In a nutshell, we achieve better productivity while remaining right at the cutting edge of precision.”

All HTM management shares the view that technical support had a crucial role to play.

“You realize that, without proper investment and the ability to call in technology specialists from Tornos and MHAC Technologies whenever you need them, it would be quite impossible to achieve results of this caliber,” Sibelle said.

Nowadays, HTM remains in good shape and is planning to invest in a new machine this year.

The new machine is sure to be a DECO 13, enabling the business to respond to rising growing demand for its products. The HTM team is also committed to launching the production of implants and prosthetics in the very near future — just as soon as ESPRIT for milling is up and running on its machining centers. ■

### ON THE WEB:

[www.tornos.com](http://www.tornos.com)

[www.mecabourg-htm.fr](http://www.mecabourg-htm.fr)



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