

CITIEFFE

technology serving man !

CITIEFFE was established 42 years ago at a time when one of the most prestigious international schools of orthopaedics was founded in Bologna. This was a laboratory, which specialized in producing the instruments required by renowned orthopaedics, who, over the course of time, were involved in this school.

Mr Franco Mingozi, one of the co-founders, explained that from the outset, the instruments produced by CITIEFFE were widely acclaimed amongst the scientific community, with which the company enjoyed excellent relations, both at the project and design stages of the items being offered.

Thanks to the company's ability to understand and implement the latest requirements of orthopaedic surgeons and given the great demand for new solutions to keep pace with ongoing scientific developments, CITIEFFE has now



Fig. 1

become a major trusted partner in supplying top of the range instruments both at national and international level.

CITIEFFE has always kept pace with the increasingly urgent demands of modern science, not only with new instruments but also by offering a series of special parts and aids used in surgery to mend fractures and for applying bio-medical prostheses.

The main strength of **CITIEFFE** lies in the utmost attention to quality, which is not only based on complying with current standards but is also experienced as an inspired principle, which is transferred to all the activities and processes in the day-to-day running of the company.

Given such a specific and significant technological context, one can

only work with a partner like **TORNOS**. This latter company, which is also an expert in the medical sector, could provide a fundamental contribution during the initial stages of each production process of titanium pins, orthopaedic screws, aids to mend fractures and prostheses... namely, precision turning.

Mr Mingozi very quickly understood that the world-wide experience of **TORNOS** in this sector, coupled with the high-quality aids produced with the machines manufactured by the company, could mark the beginning of important co-operation, which would put **TORNOS** in an even greater light in the market whilst enabling **CITIEFFE** to achieve the ultimate in quality and solutions.

The importance of the far-sightedness of Mr Mingozzi lies in the fact that he immediately understood that the human body, just like a machine or car, can and must derive benefit from the technological progress in small parts turning.

In the medical sector, progress in genetics, biology and biochemistry tend to obliterate the mechanical side, where precision and the extreme requirements to execute components is absolutely essential to obtain concrete results.

During an implant or surgery on an injured part of the body, the surgeon's actions and instruments are quite mechanical. Screwdriver, forceps, drill and, of course, all the surgical instruments are, both unfortunately but also fortunately, part of the daily routine!

The research conducted by TORNOS in all areas of precision turning, was also of direct use to the medical sector.

Items, such as surgical screws, bone implants, and screws for jaw, mouth and face surgery, all implants produced by CITIEFFE, as

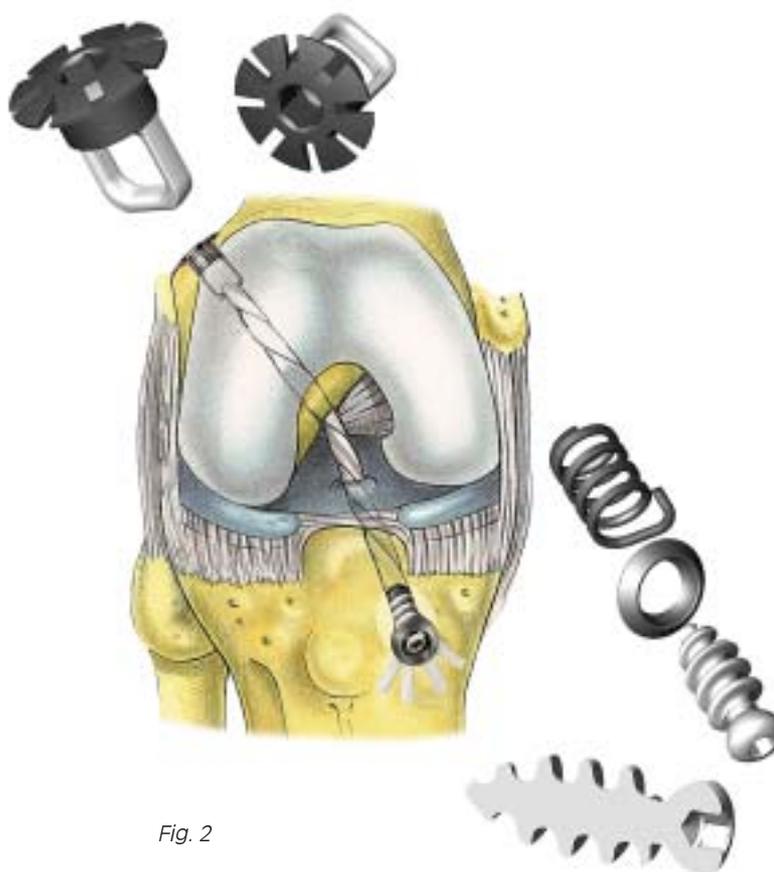


Fig. 2



well as surgical instruments, must now fulfil even more stringent requirements when used on humans, than is the case for many other sectors of activity.

The specific, tried and tested solutions that TORNOS supplies with its DECO 2000 machines for this particular sector, enabled CITIEFFE to manufacture such products as fixatives for fractures (see photo 1), swing-bridges for ligaments (see photo 2) and spinal systems (see



Fig. 3

photo 3). These were completely produced on the TORNOS DECO 2000 machines.

By obtaining these results, to which the professionalism of the operators has contributed, shows that the TORNOS machines, such as the DECO 13a, 20a and 26a have proved themselves to be highly instrumental in problem-solving in the areas of quality and production. This applies in particular to the production stages, which were designed for the titanium fracture nails for the thigh bone and tibia (see photo 4) and the small blocks for the spinal system (see photo 5).



Fig. 5

Completely manufactured parts were produced from these machines, without having to repeatedly rework them as was the case previously!

This proves that a partnership, which combines the design activities of the customer and the technology of TORNOS, will achieve great opportunities in the following:

- ◆ Product quality.
- ◆ Production costs.
- ◆ For marketing: initial product launch.
- ◆ Maintaining market supremacy.

In this specific case, effective cooperation between CITIEFFE and TORNOS could be achieved quite easily because Mr Mingozzi, who always closely monitored current market trends, was very conscious of the parts and their requirements whilst TORNOS offered the various solutions, which even today rank amongst the forerunners.

In fact, the DECO concept no longer has to prove anything with regard to reliability, precision and productivity. It upholds its fundamental quality, which was shown to

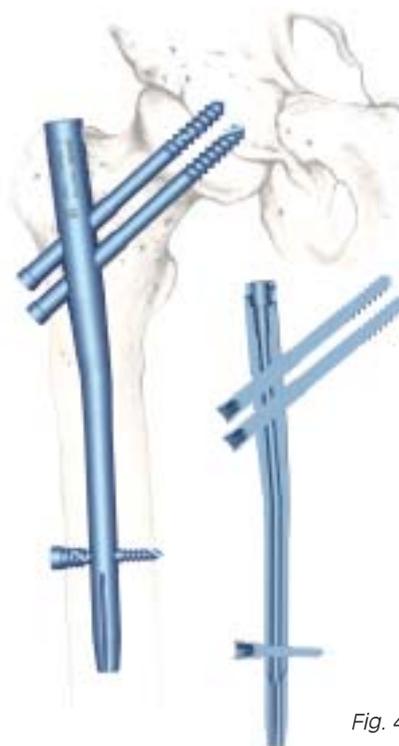


Fig. 4

be the ideal solution for the just-in-time manufacture of parts.

One can firmly state that CITIEFFE is a world leader in its sector – a statement that is confirmed every day by the market! TORNOS, for its part, has confirmation, that yet again, it directly contributed towards this success with its machines and know-how.

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