



## Custom Made Solution



### A success foretold

An especially constituted **"task force"** of engineers, chemists and biologists **is always ready to heed the surgeons' S.O.S.**, analyze the problems and devise the solutions.

**The new Custom Made Solution service**, unique among its kind, integrates cutting edge technology with culturally and personally developed personnel.

**Custom Made Solution** enters the world's operating theaters to help defeat osteoarticular infections.

We realize that talking about a **"mission"** may seem inappropriate, but in **TECRES** this is how we feel: it is a winning commitment, borne from the awareness that we are dealing with human lives.



TECRES S. p. A.  
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BIC101 rev0008

orthopaedics

## Custom Made Solution



In twenty days we'll make it  
**HOW YOU WANT IT**



Advancing High Technology

## Custom Made Solution



**We have succeeded!!**  
**The C.M.S. Service is now available**

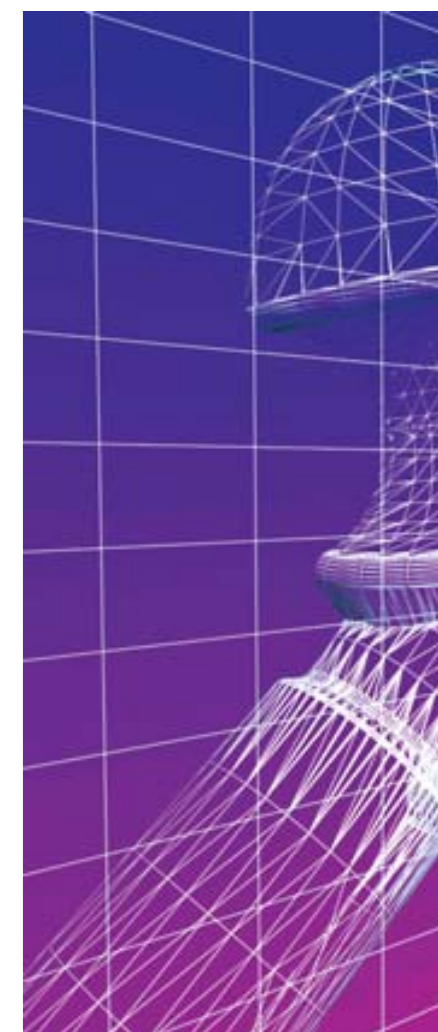
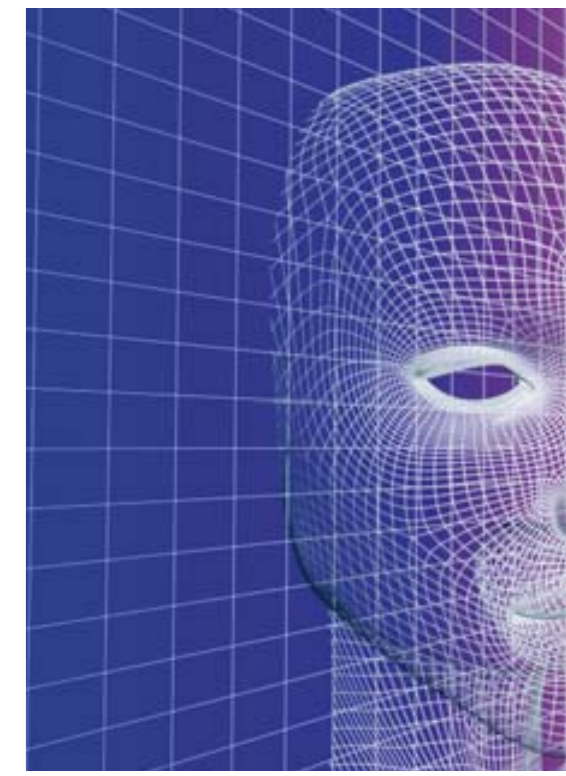
With this **new Service** we will **exclusively produce special implants**.

What previously wasn't is now possible thanks to **Custom Made Solution**.

**Upon the surgeon's specific request** we will supply **Custom Made devices designed to meet the challenges posed by the most demanding and varied emergencies**.

**In only 20 days Tecres produces the final device desired**. All you need to do is carefully follow the request instructions listed in the "Service Request Procedure".

**For almost 30 years Tecres** has been a guarantee of safety, effectiveness and speed even in the most challenging cases.





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Made  
Solution**

**C.M.S.**

### WHEN SHOULD YOU REQUEST THIS SERVICE?

- **In cases of prosthesis revision for septic causes**, when the shape of the anatomical site or the presence of a large bone deficiency doesn't permit the positioning of a standard device. Tecres, **in close collaboration with the surgeon**, develops the **custom device**, based on the physical and anatomical characteristics of the patient, after a detailed examination that **allows us today to overcome those difficulties** that until now have prevented many patients' full recovery.
- **In cases of septic revision of synthesis systems, like joint prostheses, rods, plates** (osteomyelitis or septic pseudoarthrosis). **When you want to replace the original synthesis device with a similar device coated in antibiotic-loaded cement.** Tecres can carry out the coating of any synthesis device supplied by the hospital, **with a predetermined layer of acrylic resin containing antibiotic, thus providing a real contribution in eradicating the infection.**
- **To assist the treatment of infections through the *in situ* release of a specific antibiotic or a combination of antibiotics.** Tecres can personalize the devices even pharmacological terms. **The doctor may suggest a particular antibiotic based on the patients requirements and on the data records.**

#### Prostheses revision for septic causes

##### Upper Joints

Shoulder  
Elbow

##### Lower Joints

Hip  
Knee

#### Synthesis devices revision for septic causes

##### Endomedullary Nails

Humerus  
Femur  
Tibia



*This image has been reproduced in actual size.*

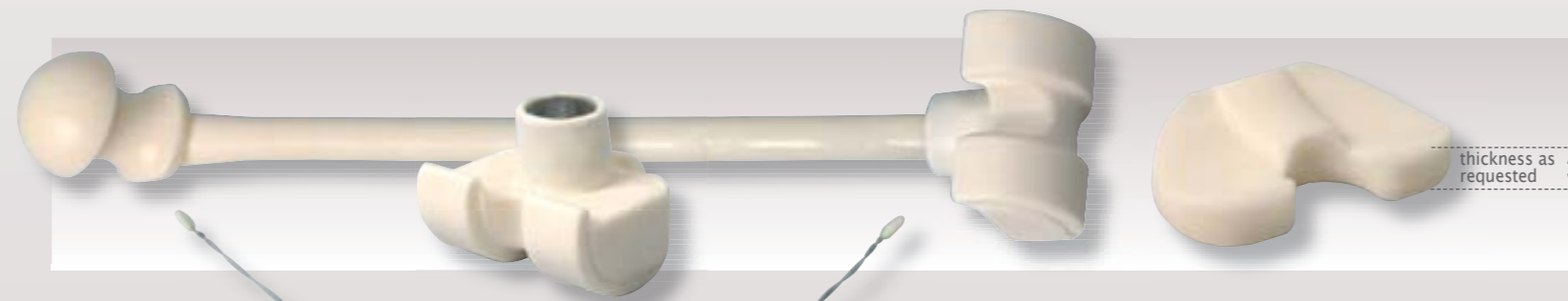
### SOME CUSTOM MADE SOLUTION PRODUCTS



Extra-long hip spacer with proximal thickening for the correct support to the diaphysis with a 50% deficit.



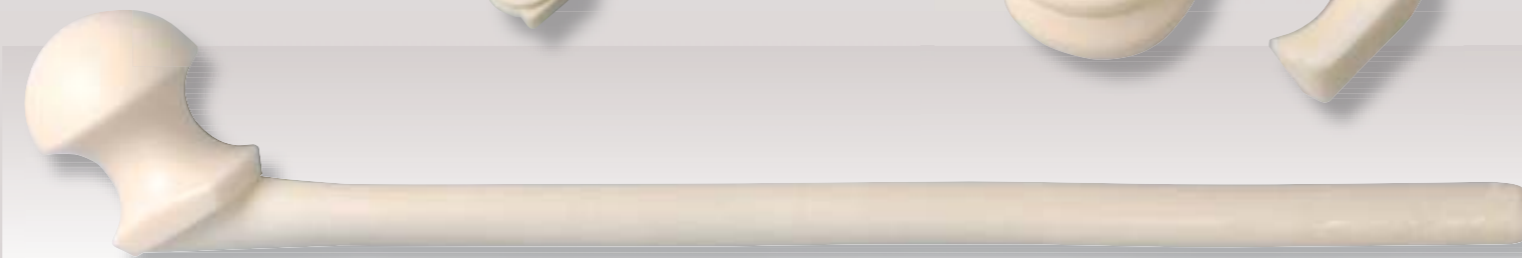
Femoral nail coated in cement loaded with antibiotic.



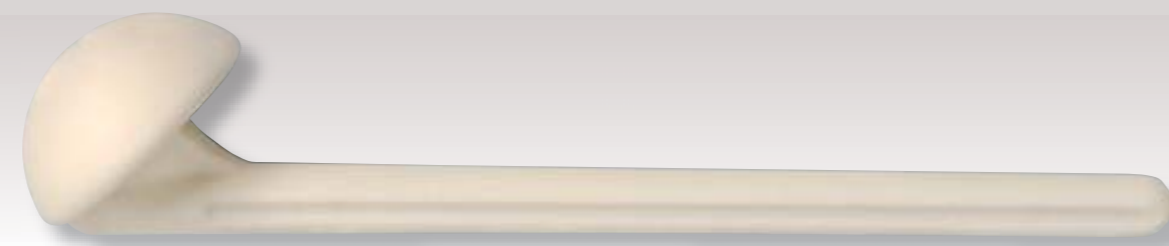
Femoral knee spacer component with tubular insert in coated steel to hold the stem of an extra-long hip spacer.



Elbow spacer with stainless steel wires upon which the surgeon builds pseudo-stems to be placed in the ulnar and humeral diaphysis.



Hip spacer with an extra-long stem for the positioning of a multi-fragmented diaphysis.



Shoulder spacer with long stem for a multi-fragmented humerus.

### SERVICE REQUEST PROCEDURE

1. Send request to Tecres
2. Following a positive reply from Tecres on the feasibility of the required product, the following documentation will have to be sent:

- medical prescription via fax or by email (in PDF format) **complete with design measured in millimeters**
- any diagnostic test results (CT , X-ray, MRI). **In the event that X-rays are the supporting results, the increase in or reduction of actual size will have to be ascertained and clearly labeled**
- any pharmaceutical substances\*
- any synthesis device **to be coated with antibiotic cement**

The prescription will have to:

- be stamped on hospital headed paper
- be signed by the doctor
- list in detail the technical specifications
- contain the identification code given by Tecres
- contain the prescription date

\*In the event that the request is for devices mixed with pharmaceutical substances other than gentamicin or a combination of pharmaceutical substances.

*Attention: the feasibility of the Service is subject to the absolute respect of the requested procedure.*

Approximate times:

**20 working days from receipt of medical prescription, antibiotic and/or any synthesis device** (the precise times will be communicated to the doctor following the feasibility study).

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