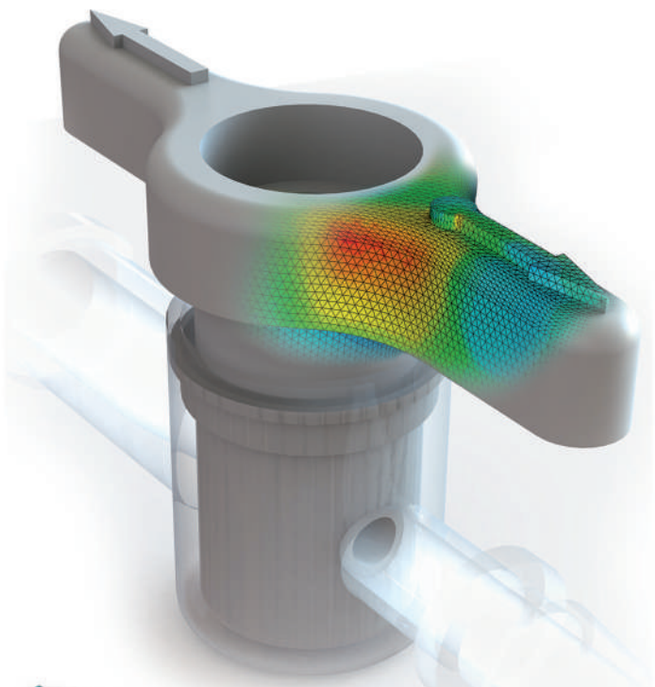
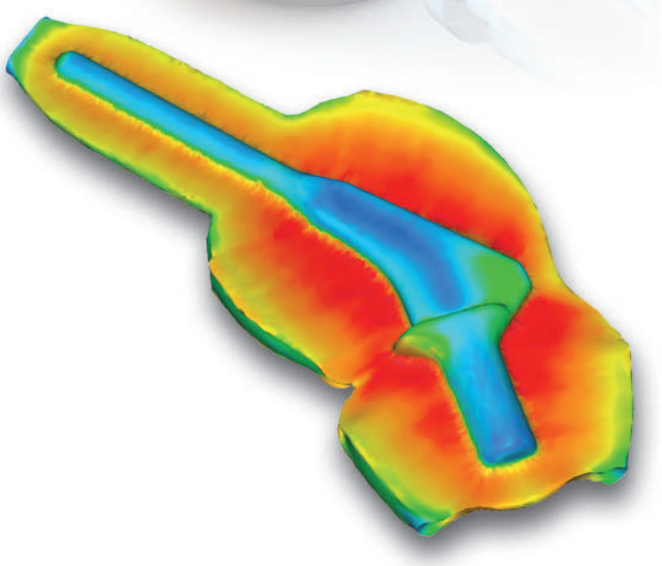
Process Simulation
dedicated to the MEDICAL SECTOR





→ **BOOST INNOVATION**
at the hearth of your process development

→ **INCREASE YOUR QUALITY & RELIABILITY**
by detecting manufacturing defects

→ **REALISTIC SIMULATIONS**
for your manufacturing processes

TRY OUT 'FIRST-TIME-RIGHT'
for designing your medical devices...

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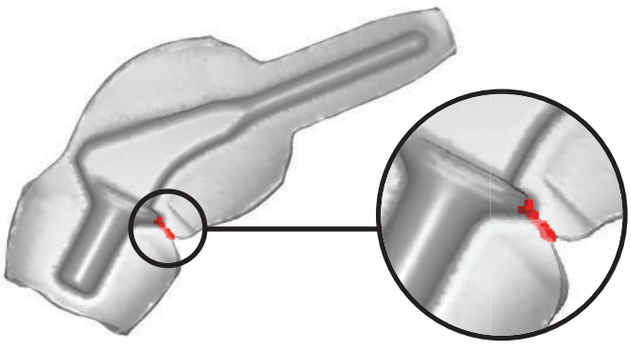
Why should you choose TRANSVALOR simulation solutions for your medical devices?

IDENTIFY THE DEFECTS

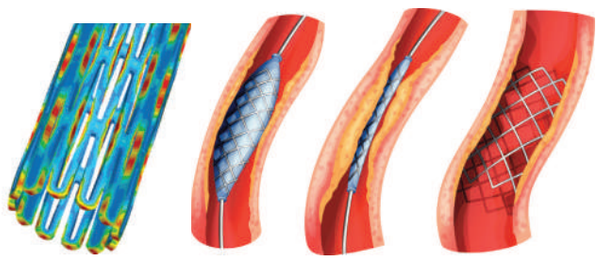
- For the stamping of metal parts, the simulation makes it possible to detect **all of the major defects.**
- The user can directly locate the underfill areas and **easily analyze the origin of cold-shuts.**



Forging of a femoral stem with prediction of cold-shut formation
FORGE® simulation

VALIDATE IN-USE STABILITY

- In the upstream phase of your projects, **test the various designs** and check the behavior of your parts in conditions of intensive use.
- **Reliable answers** for the service life of parts as well as for predicting metallurgical changes.

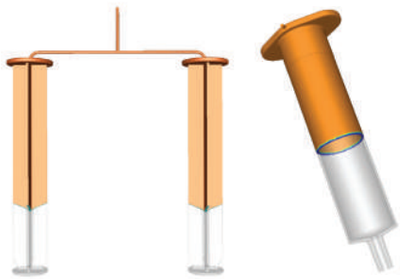


Study of the dynamic behavior of a self-expanding stent according to the artery pressure cycle
FORGE® simulation

Get a head start by using our "Virtual Manufacturing"!

CONTROLING MATERIAL FLOWS

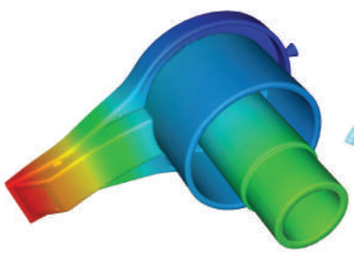
- Conduct your **rheological studies** and continuously view the flow of the material front in order to **validate the balance of the mold.**
- **Save cycle time** by optimizing the compacting phase and **reduce your development costs** by significantly limiting press tests.



Injection of the cylinder and of the piston with a PE-BDL syringe
REM3D® simulation

ANTICIPATE THE PROBLEMS WITH DIMENSIONAL INSPECTION

- For your plastic parts, limit the **shrinking and buckling phenomena** by optimizing the compacting pressure, the hold time and by checking the influence of the heat regulations of the mold.
- Obtain the **final dimensions of the parts** after mold removal and return to ambient temperature.



Study of areas with high deformation on a pressure cap
REM3D® simulation

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For any informations about our software and our service offerings

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