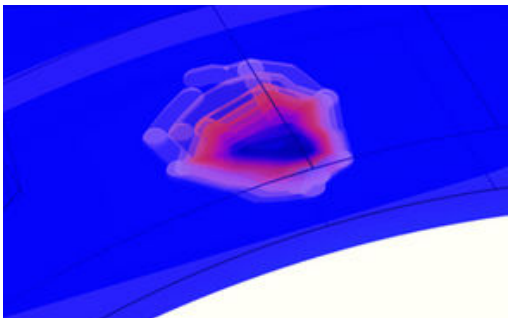
GEOCONNECTICS

RELIABILITY TESTING LABORATY

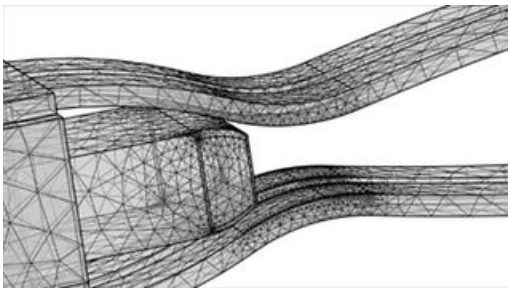
SIMULATION

OUR VOCATION

Electrical contacts & Simulation
Conductive metal parts
Insulating parts



The vocation of our company is especially the characterization of electrical contact.



We characterize the conductive metal parts through which circulates electrical energy.
We also characterize the insulating parts which isolate the current flow.

We work in the fields of aeronautics, automotive, electrical engineering, aerospace, military, electro medical devices, electronics, energy...

OUR QUALITY APPROACH

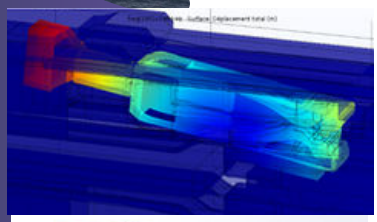
We have an R&D label called "Agrément crédit d'impôt recherche " allowing our French customers to obtain a tax deduction of 30% on theirs R&D projects.

We are accredited according the standard CEI 17025 by COFRAC since the 14 April 2020. Our accreditation perimeter is built on EN 60512 standards (contact resistance). Scope 1-6763 available on the COFRAC website.

FROM BASIC SIMULATION TO ADVANCED MULTIPHYSICS CONTACT

GEOCONNECTICS | Reliability Testing Laboratory | Impartial & Independent for 25 years
202 rue de l'Ile Napoléon | 68400 RIEDISHEIM | contact@geoconnectics.com | +33 (0) 89 45 70 11

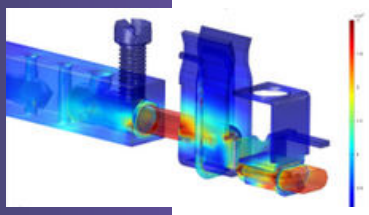
SIMULATION
OUR SERVICES



Mechanical domain

We perform basic tests

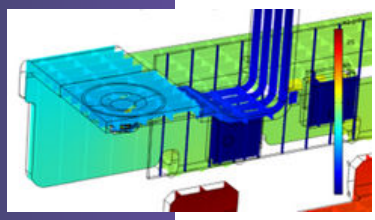
- Deflection of contact blade
- Contact pressure and forces
- Relaxation of materials
- Resonance's frequencies
- Tomography of real parts



Thermal & heating simulation

We perform thermal analysis

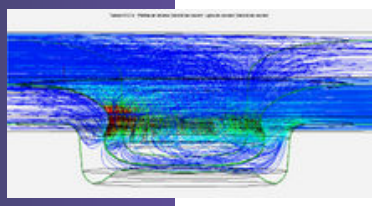
- Thermal distribution and gradients -
- Heating (Joule's effect and induction)
- Thermal capacity

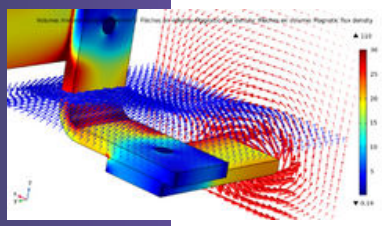


Electrical domain

We perform numerical electrical measurements

- Current, voltage drop
- Contact resistance
- Current density





Magnetics coupling

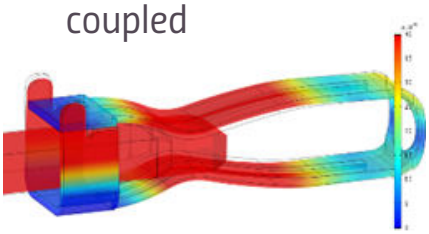
Flux and forces

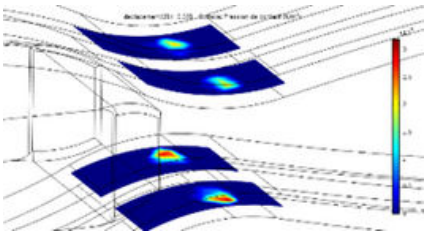
- Lorentz forces
- Laplace forces
- Flux arrows and current density

Non linear electrical contacts

We carry multi-physical contact simualtions

- mechanical, electrical, thermal and magnetics, simulations coupled

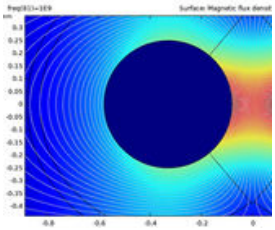


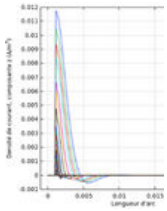


RF-transmission line

We realise calculation of lines

- Skin effect
- Impedances

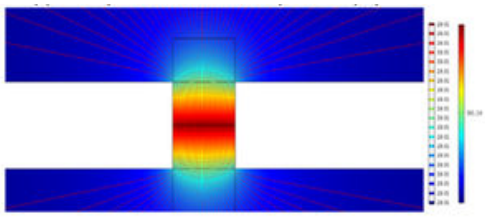




R&D calculations

Discoidal and balistic

- mechanical, electrical, thermal and magnetics simulations coupled



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