M-Tecks EAC

MECHANICAL AND MECHATRONIC R&D
MECHANICAL AND MECHATRONIC ENGINEERING
SUBCONTRACTING MANAGEMENT
PRODUCTION AND ASSEMBLY

MECHANICAL ENGINEERING BY NUMERICAL SIMULATION

Reduce your project uncertainty

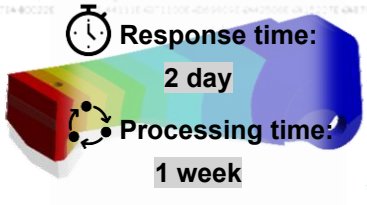
- Our skills as a complement to your team
- As a support for your team on complex issues

Advanced

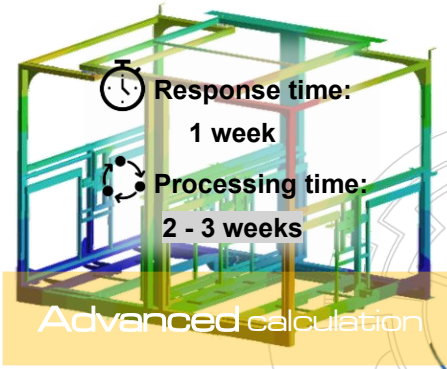
- Vibratory / seismic analysis
- Non-linear calculations
- Thermomechanical coupled analysis
- Fatigue strength under cyclic and random loads

Expert

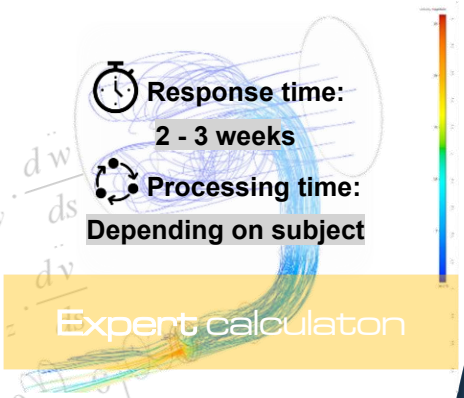
- Thermo aerodynamic
- Optimization
- Fast dynamic analysis
- CFD calculations



Basic calculation



Advanced calculation



Expert calculaton

Ansys

Robot Structural Analysis Professional

PROFIS software

More details on our website:
www.M-TecksEAC.com

EN 9100

Mechanical and mechatronic engineering (research in robotics, innovative process and products, technical calculations, process design)

M-Tecks EAC is approved **Research Tax Credit** and **Innovation Tax Credit** by the General Directorate for Research and Innovation.

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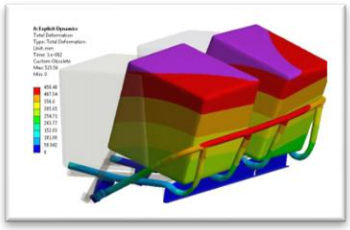
Areas and applied normative frameworks

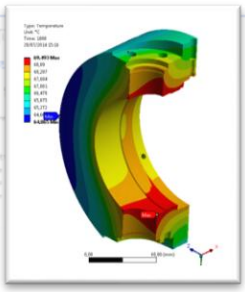
Fast dynamics



- Crash of an object on a load stop
- Structure deformation during the impact

▸ Automotive
▸ Industry
▸ Defence
▸ Railway

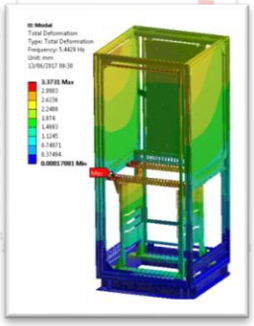
Thermomechanical fatigue



- Temperature evolution in the room
- Determination of mechanical stresses generated by thermal gradients
- Fatigue performance verification by checking the usage factor

▸ Nuclear
▸ Industry
▸ Railway

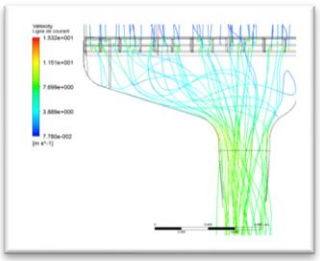
Seismic / Vibration



- Vibratory performance of the structure
- Calculation of resonance modes
- Verification of seismic strength by recombination of the modal basis

▸ Nuclear
▸ Building
▸ Industry
▸ Defence
▸ Railway

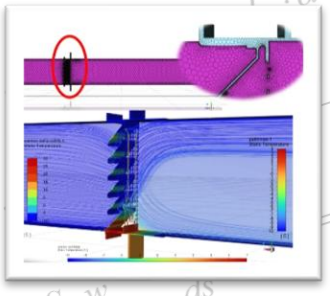
Fluid



- Calculation of pressure loss in a pipe
- Determination of the minimum returnable flow rate
- Checking of the mechanical strength of the pipe under static pressure

▸ Industry
▸ Process
▸ Nuclear

Fluid thermal coupling



- Thermal power sizing of the cable
- Study and characterisation of flow in the grid

▸ Industry
▸ Aeronautic
▸ Nuclear

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