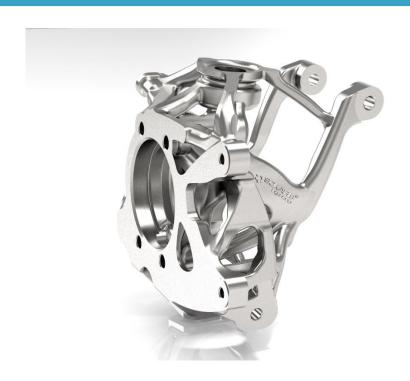


Optimization of steering knuckle with Aluminium Additive Manufacturing



Innovation at the heart of Sokaris Engineering:

Pushing the limits of design with Optimization

With a real focus on innovation, Sokaris Ingenierie has designed and optimized a steering knuckle made of **Aluminium** with **Additive Manufacturing Process.**

Thanks to deep expertise in **global optimization product-process-material**, and despite the large dimensions of the part, our team succeeded in realizing an **optimal geometry design** that ensures **mechanical properties**.

30%

This is the **significant mass reduction** that was obtained with our final solution!



Our automotive DNA

We have been involved in the automotive sector for many years. Henceforth, we are able to provide technical support from specifications to industrialization.

Tell us about your project!



Our approach to meet your needs

- Optimized design
- Optimization
- Finite element calculation & System dynamics
- Crash validation
- Process simulation
- Material characterization
- Cost estimation of manufacturing unit
- Cost estimation of mass production part



- Body in white: Bi-material assembly
- Structural parts
- Engine bay
- Chassis components
- Car cockpit



15 years of experience in optimization and **mass reduction** for mechanical and structural parts.

Ready, get, set, Go!

http://www.sokaris-ingenierie.com/