

Optim Welds

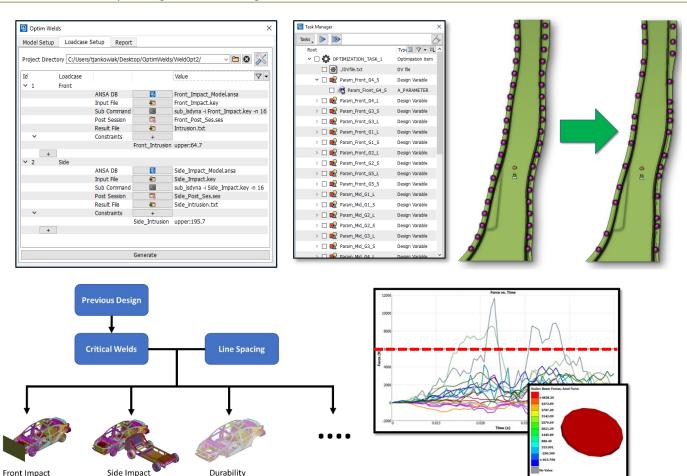


Multidisciplinary spot weld optimization tool

Optim Welds is a unique multidisciplinary spot weld optimization tool capable of reducing the overall number of welds in a vehicle while meeting the performance targets. The tool allows quick determination of critical weld locations and reduces the insignificant welds. This is done for a particular performance criteria, set for a multitude of load cases. Optim Welds is integrated into ANSA environment which allows easy parametric base-model setup for multiple load cases. The true benefit of Optim Welds comes from being able to quickly determine the critical welds, leading to a faster optimization process over traditional approaches. The result is the best nonuniform weld location distribution with the minimum number of welds required.

Functions & Features:

- Easy and intuitive user interface with a guided process setup.
- Automated multidisciplinary parametric model setup and optimization workflow buildup.
- Automated post processing, supporting user defined critical weld criteria.
- Reduced number of design iterations resulting in huge computing and time savings.
- Nonuniform distribution of welds while meeting the performance criteria.
- Continuous reporting of best designs.



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