

Sorpas® FEA Weld Simulation

SORPAS®, developed by SWANTEC, is the most widely used software for the modeling, simulation and optimization of resistance welding parameters. It has been used in many industries for spot welding, projection welding, butt-welding, and micro-resistance welding. Unlike traditional methods, SORPAS® FEA software provides advanced computer simulations and results quickly and efficiently BEFORE implementation to minimize testing.

SORPAS® will:

- Optimize welds and process parameters
- Evaluate weldability of new materials and joints
- Evaluate designs of weld combinations and electrodes
- Troubleshoot welding problems and new applications
- Reduce costs through reducing trial and error testing and, at the same time, provide a documentary trail

Available in:

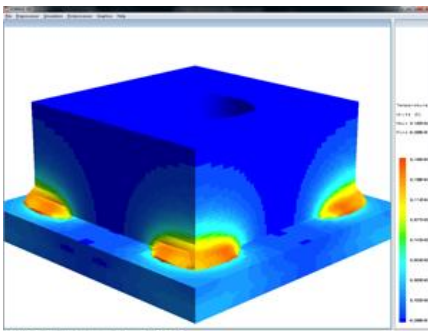
SORPAS 2½D®

This is the original and standard version of SORPAS®. The 2½D models are ideal for quick simulations of flat sheet to sheet resistance spot welding and any axis-symmetric models. Results are able to be produced in under 10 minutes and include predictions for post weld hardness, failure strengths and nugget size.

SORPAS 3D®

With the power of 3D models, this version of SORPAS® allows for much more complex joint geometries and situations to be accurately modelled and simulated. SORPAS 3D® is ideal for non-axis symmetric models such as projection welding or parallel gap welding, as well as wire or clinch welding.

SORPAS® was created by engineers for engineers. It is easy to use and a quick training program is all you need.



FirstWeld™ Consulting

Huys Welding Strategies has a program to help optimize welding parameters. The FirstWeld™ program helps customers to improve new or existing processes, solve difficult welding issues, and improve and optimize welding operations.

FirstWeld™ is based upon the successful SORPAS® resistance welding software and is applicable for most resistance welding applications, from micro-welding to large complicated stack-ups such as AHSS and organic coated steels.

Typically, FirstWeld™ provides:

- A detailed report of your current welding parameters & problem
- Our report and optimization strategy with mpeg file and technical details of the simulated weld we recommend
- Professional advice and follow-up to assist your implementation of the recommended improvements
- Additional services, from training to weld satisfaction, are also available

Want a Huys' engineer to visit to analyze your welding applications? Complete a FirstWeld™ Reply Form either by email, fax, or by using the online form, found under the FORMS tab on our website.

