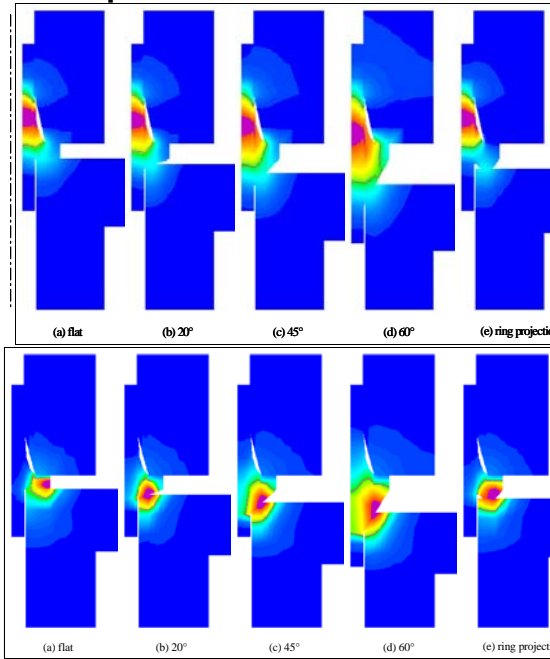
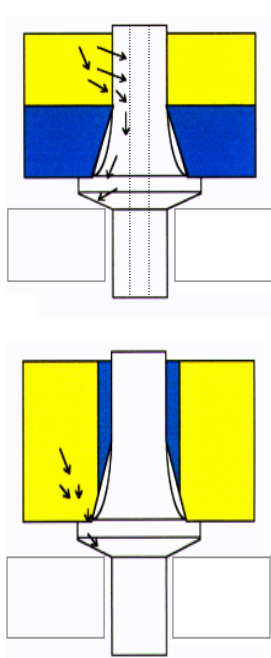


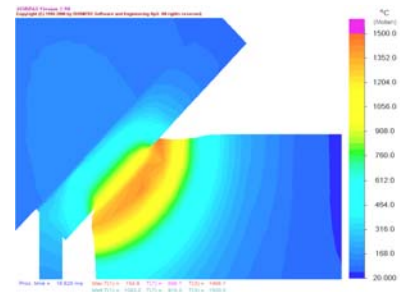


DESIGN APPLICATIONS

Short lead times from concept to production require efficient and quick design decisions. SORPAS™ software is effective in assisting in the determination of the optimum electrode type, material composition, thickness, coatings, joint design and layout. In addition, SORPAS™ aids troubleshooting by its use of animated files and its documentation of possible alternatives.



On the left are two designs with arrows indicating the flow of heat & electricity through the electrode in this stainless capillary tube to steel application. On the right we see the software's output in "stills" from the animated files. These animations show the results of differing insulation in the electrode design and where and how the weld nugget forms. ***Thus time is saved before testing on the line has begun by discarding a less effective electrode design.***



SORPAS™ makes your life easier. On the far right is a simulation of a projection weld between a tin-bronze hat to a steel ring. To the left is the verification of the actual weld by a scanning electrode microscope. SORPAS™ technology allows you to ***visualize the welding process***, saving you time from concept to production. To the right are two simulations of heat balancing between different materials and different electrodes. SORPAS™ facilitates the analysis and measurement of expulsion, welding lobes, the effects of brittleness, weldment hardening and fracturing and the effects of higher electrode wear. ***Reduce guesswork and unnecessary laboratory testing.***

