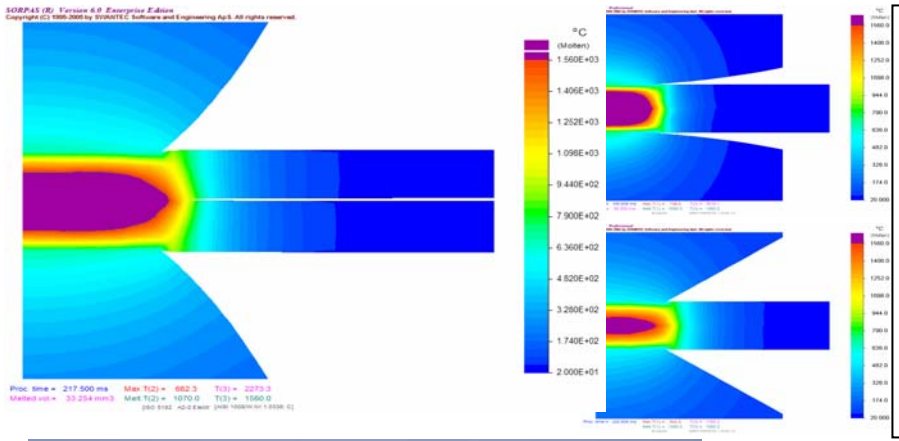
Huys Technical Library #18

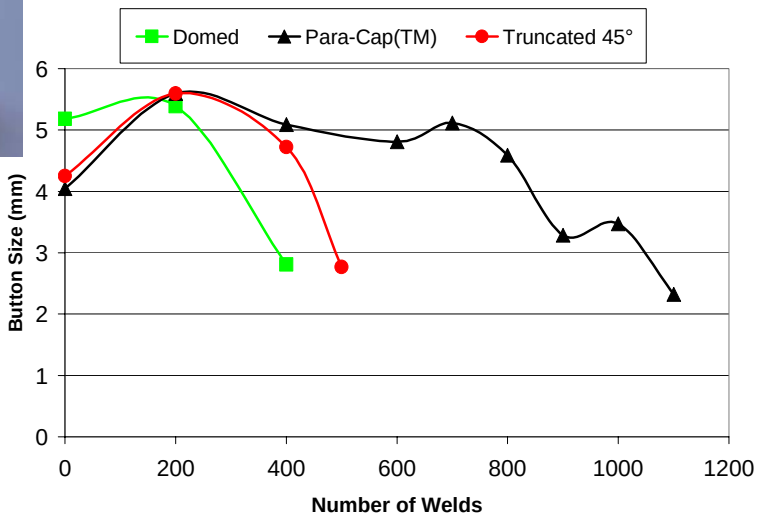
PARA-CAPS™

The Para-Cap™ incorporates a unique parabolic shape and internal fins to provide superior performance by means of responsive heating, cooling, and "form" durability. It is manufactured by a combination of machining and cold forming of special copper alloys, and has been tested around the world in traditional and emerging welding applications.



Sorpas® simulations highlight the advantages of the parabolic shaped electrode in resistance welding applications over conventional electrode geometry. In addition, its responsive heating and cooling characteristics work especially well with coated & new AHSS such as dual phase and TRIP steels.

Para-Caps™ are available with a flat weld face of any diameter to accommodate all sheet thicknesses and weld applications. Para-Cap™ electrodes have exhibited improved electrode life over domed and truncated electrodes when welding HDG steels. (Tests performed at Univ. of Waterloo – see right)



Patent pending fins have been introduced to govern the flow of water through the water jacket. Tests have shown that better water flow leads to better heat transfer and results in the longer life of the electrode. Huys' "cruciform™" pattern at left effectively combines reasonable cost of manufacture with good heat transfer under the normal range of water flow and water temperatures. In excellent cooling conditions, Huys' patent pending "cathedralroof™" design provides even better heat transfer capability.

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