

ParaCap™



The ParaCap™ incorporates a unique patented shape and internal finwork to provide superior performance by means of responsive heating, cooling, and “form” durability.

It is manufactured by a combination of machining and cold forming. The ParaCap™ has been tested around the world in traditional and emerging welding applications.

It can also be used in conjunction with Huys’ TiCap™ coating, creating a unique electrode with outstanding welding performance. This improved performance is particularly evident when welding high strength or coated steels and side dressing is used.

ParaCap™ Advantages

- Parabolic shape resists mushrooming more effectively than standard nose styles
- Finwork reduces weld face growth and preserves current density to yield larger and more consistent welds
- ParaCaps™ can be redressed to their original state more times than traditional domed electrodes
- They require less frequent dressing and are not shortened after this process
- When coated, the side dressing does not damage the TiC coating, ensuring weld button quality

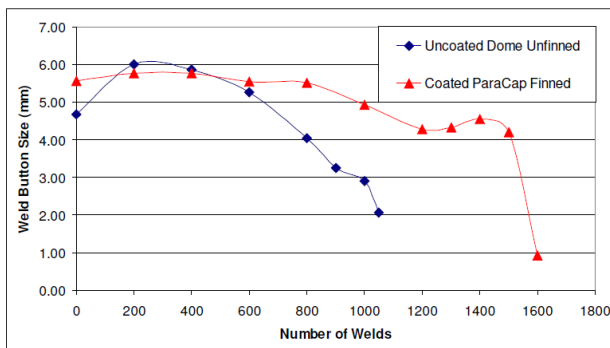


Fig 12: Electrode life test results for Improved electrode design (coated, parabolic, finned and side dressed) compared to conventional (uncoated, domed, unfinned and fully dressed) electrode design.

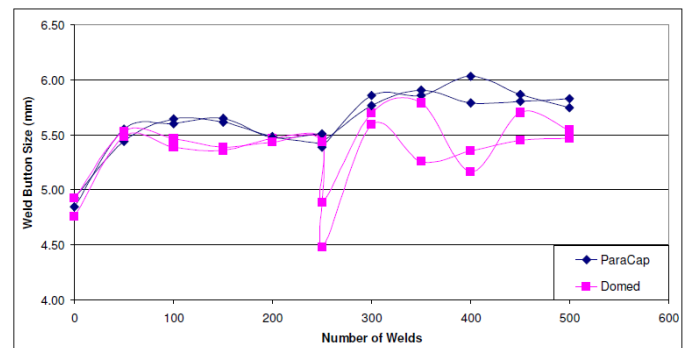


Fig 10: Weld button size for parabolic and domed electrodes

*Chan, K. R. and Scotchmer, N.S., “The PARACAP™ - Longer Electrode Life from a New Geometry, an Innovative Multilayer Coating, and Internal Cooling Fins”, The 4th International Seminar on Advances in Resistance Welding, Wels, Austria, November 14-16, 2006