Reduce Equipment Downtime Using IBC’s Proprietary Steel and Aluminum Locator Pins!
Based on Plasma Electrolytic Oxidation and Diamond-Like Carbon Coating Technologies

CeraTough™ Coated Locator and Welding Pins

CeraTough™ Pin Properties
- Incredibly High Resistance to Wear
- Superb Electrical Insulation Properties
- High Thermal Conductivity
- Low Coefficient of Friction
- Weld Spatter Resistant
- Low Surface Roughness

About
IBC’s CeraTough™ coated locator and welding pins are made to last in the most demanding conditions. Our pins are made using high quality tool steel and aircraft grade 7075 aluminum alloy. CeraTough™ pins are currently being used by a major global automobile manufacturer, where they have demonstrated a 20x life improvement over all other pins. IBC’s pins can be custom made upon request or ordered in a variety of standard dimensions. If you already have pins, we would be glad to coat them for you.
Technology: Plasma Electrolytic Oxidation
IBC’s aluminum pins are manufactured using our CeraTough™-Al Plasma Electrolytic Oxidation process. PEO is an electrochemical process of oxidation performed by creating high energy micro-discharges on the surface of components immersed in an electrolytic fluid. The result is a dense, ductile nano-ceramic oxide layer with superb mechanical, wear, thermal, dielectric, and corrosion properties.

Technology: Diamond-Like Carbon
IBC’s steel pins are manufactured using our CeraTough™-D Diamond-Like Carbon coating process. DLC coatings are based on a mixture of sp² and sp³ phases. They are well known in the industry for their low coefficient of friction and high micro-hardness, making them outstanding in high-wear applications. Our steel pins are hardened before the DLC coating is applied, allowing for greater coating adhesion and stronger substrate performance.