

New Cutting Electrode Improves Safety

Our new Swordfish™ is a brand new non-exothermic (oxy-arc) cutting electrode, which requires no oxygen. So no more O₂ bills, or lugging heavy cylinders about or the need for high pressure gauges, hoses or even a cutting torch. The electrode requires no special equipment whatsoever; a standard DC welding power source, cables and stinger are perfectly suitable, providing they are suitable for underwater use and that the power output/duty cycle can cope with the amperage required (290-350 amps). As no oxygen is necessary, the potential explosive dangers involved with conventional exothermic cutting are removed and the hazards to the diver are reduced. All usual general safe underwater welding precautions must however be observed. The electrode is available in 5.0mm diameter and it will cut a range of materials; including steel, stainless steel, cast-iron, bronze, copper, both above and below the waterline, etc.



New Electrode Removes Welding Skills

At last, a welding electrode to join steel up to a combined thickness of 32mm, without the need for any welding skills. Don't believe it! It's true. Our new Hammerhead™ wet-spot welding electrode allows underwater welding to be conducted without the need for skilled welder-divers and whatsmore, they can also be used in low visibility conditions, as there is no need to deposit a conventional fillet/butt weld. No need even for joint preparation, or cleaning prior to welding. All the diver need do is press the electrode against the surface of the material and the electrode will pierce through to the back plate, where the electrode will then fill up this hole, joining both materials together by means of a spot/plug weld. A non-welder can produce high quality welds using this electrode every time, the process also allows for full automation. The electrodes are best used in conjunction with our new Piranha II control unit. (Piranha I models can also be adapted). This will provide the necessary controls to ensure the quality of the weld is repeated and meets the necessary standards time after time. Although it is possible to use the electrodes without the Piranha control system, quality control of each weld cannot be guaranteed. The electrodes will be available in 3.2mm, which can comfortably be used on steel of 10.0mm thickness. We also intend to offer a 4.0mm electrode for material over 10.0mm and up to 16mm thick; these will be available later in the year.



The above products will be available for sale very shortly.