

UNDERWATER WELDING SERVICES

Underwater welding is the ideal solution for restoring repairing damage to vessels with ruptures, cracks, etc. because it provides speediness with low repair costs. **BEVALDIA (Manager of the branches PSOMAKARA & GAMSRO)** guarantees the high quality of performance of underwater welding due to the long term experience of its professional divers, who are certified by the State of Spain and by Lloyd's Register of Shipping for their high level of knowhow for underwater welding which they possess. Underwater welding is used for ships for temporary or permanent repairs of cracks in the hull of the ship, for the installation of anodic protection, for temporary repair of cracks on rudder and rudder blades. Underwater welding is divided into two areas wet welding and dry welding.



ADVANTAGES OF WET WELDING

- ✓ The low cost
- ✓ The flexibility of the diver, who can reach inaccessible parts of the ship, with which other methods is impossible.
- ✓ Faster execution of work.
- ✓ Time saving, since the equipment required is minimized and does not require a chamber to be structured.
- ✓ The possibility for non-destructive testing (NDT) * of welding and the ability to monitor the entire process from cameras placed underwater (NDT inspections).

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FRANCE Marseille	GHANA Tema	GUINEA Conakry Kamsar	INDONESIA Balikpapan	IV. COAST Abidjan	KOREA Yeosu	MEXICO Lazaro Cardenas Manzanillo Punta Manzanillo Tuxpan	PANAMA Balboa	SPAIN Palma de Mallorca	SENEGAL Dakar	TUNISIA Tunis Sfax	

OVERHEAD WELDING

The overhead underwater welding is one of the most difficult welding techniques, because the diver-welder requires to possess great skill and precision during this operation, parallel fighting with the gravity that is created between the diver and the work-piece (underwater). BEVALDIA (Manager of the branches PSOMAKARA & GAMSRO) provides well trained and certified divers to accomplish the overhead underwater welding, whenever it is requested or judged necessary, by providing guaranteed results.



OUR ADVANTAGE

For best results for underwater overhead welding, it is required to keep an upward direction of the electrode and a short arc seam, in combination with low work rate, as to achieve:

- ✓ Motion control, against gravity
- ✓ A better possible penetration to the cracks (rupture)
- ✓ Avoidance of porous seam welding



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