

- **Advanced Welding Technology for Superior Weld Characteristics**
- **Lightweight, Portable GTAW Welding System**
- **Data-Logging for Quality Assurance**



Since its introduction over fifty years ago, nuclear power has had a revolutionary effect on naval submarine design and construction. Providing far greater endurance than alternative options, nuclear reactors allow today's boats to stay underwater longer and travel farther, limited only by the needs of the crew.

The manufacture of such a crucial component represents a very demanding application. Welding and joining the multitude of tube and pipe requires systems that are portable, precise, and able to function under a variety of conditions.

In order to meet these challenges, a major shipbuilder recently employed the new Liburdi Dimetrics® P300™ GTAW welding system in the construction of nuclear reactor components for naval submarines and aircraft carriers. Its lightweight, portable design makes it very well suited to negotiating the tight confines of naval warships to reach the intended work area.

Producing quality welds is of the utmost importance in such a critical application. The P300™ meets these demands easily, with its advanced Puls weld® linear power module adjusting up to 150,000 times per second to provide unmatched current and stability on all materials. In addition, the data-logging features of the P300™ generate the necessary process documentation for quality control and assurance purposes.

Such applications may also require the use of various shield gases for optimal welding performance. The operators found the P300™ to be well up to the task in this regard; employing a special helium shield gas mixture to provide the ideal

combination of greater penetration with reduced heat input.



The new Liburdi Dimetrics® Low Profile Weld Head can operate with as little as 1.75" clearance

These features and others have made the P300™ portable welding system a resounding success in the field of naval shipbuilding. To learn more on how the range of Liburdi Dimetrics® products can meet your tube, pipe, and industrial application needs, please contact us at 1-704-892-8872 or email us at dimmktg@dimetrics.com.



The All New P300™ GTAW Welding System