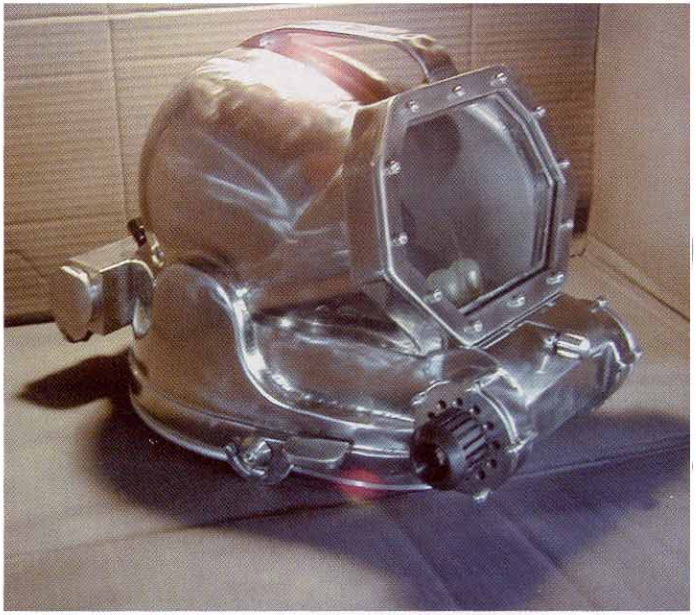
A New Helmet for Commercial Divers

An exclusive interview with inventor **Leszek Gorski**.



The G2000SS diving helmet was designed by Leszek Gorski to take safe diving into the 21st Century. Its stainless steel, lightweight investment casting makes the helmet one of a kind.

The new helmet was designed on SolidWorks 3D software and programmed for computer-numeric controlled machining. Its all-metal construction makes it easy to adapt to auxiliary equipment such as lights or a helmet-mounted camera. The front port window is made from the strongest machineable Lexan material for extra safety. The mounting holes in the port are individually drilled through, allowing the retaining bolts to pass through the window itself, thus reducing the risk of the window popping out in the event of a hydrogen explosion during underwater cutting operations.

Gorski has designed a unique retaining system to lock the neck dam in place. The G2000SS comes equipped with a first-stage regulator built into the manifold block at the back of the helmet, allowing for non-restrictive pressure supply. The second-stage demand capability was designed for balance and ease of breathing. The Poseidon Cyclone 5000 has been tested and proven for depths of 980 feet (297m), and has been incorporated to fit within the helmet where it is fully protected at the lower front portion of the nose area, an integral part of the shell configuration.

The helmet does not require a side block, which was replaced instead with a free flow valve in-line with the second-stage regulator. The back mounted manifold contains the first-stage and two check valve assemblies, one for the main supply and the other for the reserve backup air or gas supply. This configuration allows for all hose connections between the first and second-stage regulators to be kept inside the helmet.

Gorski used industry-standard brand name components to increase reliabilty. The G2000SS weighs in at approximately 28 pounds and was designed to be a simple piece of equipment that is easy to maintain. We asked Gorski to outline the devlopment process for us. For more information on the contstruction and availability of the new helmet design, email leszek@g2000ss.com.

Q: *How long was the helmet in development?*

A: The whole idea started back in Poland. Nothing really was avail-