Case Study 30: Saturation Dive Systems

Tungum® is material of choice for Drass

Tungum Tube

Drass Galeazzi is the world leader in the design, manufacture and installation of Saturation Diving Systems. As such, the company requires high-quality, proven and reliable materials for use in demanding, safety critical environments which is why Tungum is its tube of choice.
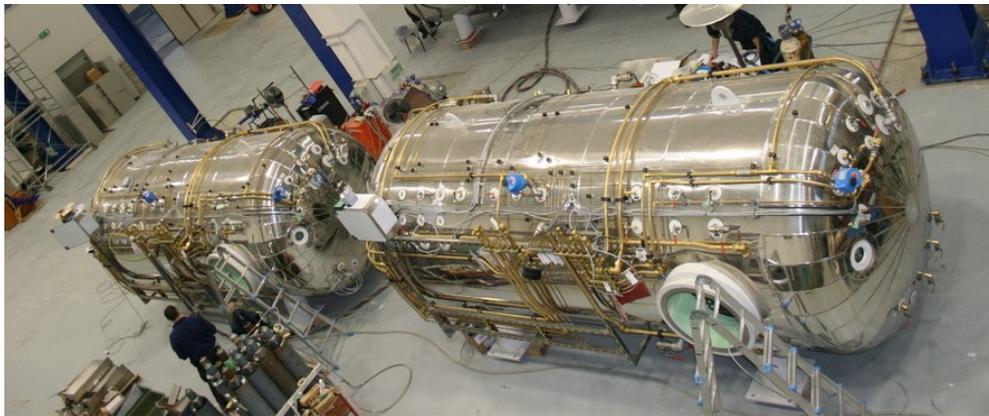
Dino Tempesti, Senior Mechanical Engineer and Piping Expert at Drass Galeazzi, explains:

"I've worked at DRASS since 2006 and from my first day I've used Tungum tubing in my projects. The characteristics of Tungum permit easy bending and installation inside the gas panels and diving bells, and we use it for all oxygen and mix-gas lines of the diving system (air dive and saturation).

"Tungum tube is perfect for an installation with two-ferrule or flare (SAE J514) fittings. I have had no recorded failures in Tungum for a decade, so I recommend trying it out, you'll thank me!"

Drass began using Tungum because it needed a DNV approved high-quality tubing solution that is corrosion resistant and oxygen compatible for use on gas ring panels, oxygen lines and divers air systems. Tungum is a non-sparking alloy and conforms to the Standard Test Method for Determining the Combustion Behavior of Metallic Materials in Oxygen-Enriched Atmospheres (ASTM G124-10). It is also highly resistant to corrosion from sea water and is recommended by the International Marine Contractors Association (IMCA).

Ruben Muro, Global Sales for T2 Alloys Limited, says: "Tungum is the material of choice for Drass for many years now. The many benefits Tungum brings are proving invaluable in piping high pressure gases, particularly oxygen. Tungum's characteristics reduce the danger of explosion which is critical in dive applications and what makes Tungum the material of choice in saturation dive applications. This coupled with excellent corrosion resistance in seawater and ease of installation make Tungum the best choice for safe, reliable, long lasting systems."