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# Titanium now an affordable option By Jenny Pretorius

Auckland-based Supreme Metal Component Solutions recently introduced a new price structure for precision cast titanium components.



Supreme is a metallurgical design and metal component solutions provider with its head office and a precision casting facility in Auckland. The company also has facilities in a number of other locations.

A respected player in the international niche market, it has provided more than 3000 casting designs ranging from a few grams to about 120kg in weight to a stable of loyal high-end customers across a range of industry sectors over the last 30 years.

Supreme Steel Commercial Manager Brian Winthrop says titanium in metal components gives the components highly desirable engineering properties in certain applications. However, in the past, cost concerns have often resulted in customers opting not to take full advantage of the benefits titanium could add to their products.

Brian explains that following a successful research program, Supreme now has access to competitively priced titanium, a cost advantage it decided to pass on to its customers. The company has already delivered a number of titanium precision cast metal components at less than half the cost historically associated with the production process.

"Supreme is inviting interested parties to consider titanium as an option for their next product or project. We can supply titanium components up to approximately 10kg in weight and an approximate size of fitting

within a 500mm cube," he says.

Titanium offers a high strength-to-weight ratio and extraordinary corrosion resistance, making it an ideal choice for medical, marine, hand tools, sporting goods, and high performance automotive applications. Comments Brian: "The Supreme team has a record of solving technically challenging and complex metal forming problems by partnering with customers."

"Our team includes metallurgy, materials engineering, mechanical engineering, design, tool making, machining, and metal casting specialists. Our validation processes are robust and impressive. We are one of the foremost precision castors in the Pacific Rim, and our investment in extending the availability of titanium components to more of our customers will enhance our reputation as a world-class metal component solutions provider."



A commercial dive helmet component cast from titanium. Titanium was chosen for reasons of its low weight and corrosion resistance

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