

ORSeS Product Services – Customer Story – August 2008

ORSeS has been contracted by Mantek International Canada, Inc. for their product design (mechanical packaging) for a NEW range of electronic tools and chargers.

As one of our customer service offerings, ORSeS has been contracted by Mantek for more than a year now, to do all of the mechanical redesign for their client, namely TecMate, for their range of electronic diagnostic tools & chargers.



Newly designed & released Optimate 4 Product

Our services include experienced Industrial Design consultancy, through our Chief Technical Officer – Brad Schilling, who has more than 20 years industrial design experience and more than 15 years of Pro/ENGINEER 3D modelling experience, including advanced surfacing; sheet metal & plastic package design knowledge.

All the external packaging of the products have been redesigned and modeled by ORSeS using Pro/ENGINEER. The electrical components and PCD Design has been done in house by Mantek, under the supervision and guidance of Martin Human, Chief Technical Officer (CTO & CEO) for Mantek International Canada, Inc..

According to Mike Cooper, Director of Sales in North America, Tecmate, 'The new designs have included a number of important design specification changes, which are driven by customer requests. Changes include a varied color scheme and new sealed shapes for the product range and an improved, simpler manufacturing process, which in turn has helped reduce the product costs'. Much of this has been enabled due to the use of 3D modeling as well as the experience of ORSeS in this field – through Brad Schilling, Chief Technical Officer for ORSeS.

The entire product design & physical prototypes (often using Stereo Lithography or 3D printing) are done in Oakville, Ontario, while the actual production work (manufacturing) is done in China (High volume) and South Africa (Low volume - more complex products)

By utilizing the 3D modeling & viewing capabilities in both Pro/ENGINEER & ProductView, communication between Engineering (R&D); Sales; Marketing; and Manufacturing at Tecmate International, all located in different parts of the world, has improved significantly, and the quality and accuracy of the final products have also been enhanced.



Optimate 4 Product together with newly designed external package for North American Market!

Features included in the packaging design & modeling, include all the draft angles for the plastic parts, as well as how the various parts are assembled for the final product. A good example of the new stylish weatherproof enclosure is the Optimate 4 (predecessor was the Optimate 3) – the new benchmark for diagnostic battery optimizers for 12V lead-acid batteries up to 50Ah.

Previous Version of product – Optimate 3 – shown here



ORSeS is proud to be associated with such a dynamic and growing international company as Tecmate International, and hope to continue working with Tecmate for many years to come.

More about ORSeS Inc

ORSeS provides product design services in a wide range of industries today, including Agricultural, Construction, Forestry, Mining, Structural Steel ,Waste Disposal products & Electronic packaging. Our experienced 'engineering personnel' combine a proven methodical approach with real-world product development expertise to transform conceptual designs into reliable, high quality and cost effective products. Our engineering

team has successfully completed a number of large projects under tight deadlines with excellent results for our clients. Want proof, speak to our customers!



More about Tecmate International

Tecmate International is based in Belgium and covers Europe and rest of world. Tecmate North America is based in Oakville, ON – Canada and covers the America's. Mantek International Canada, Inc., is the Research & Development (R&D) division for the group – also based in Canada.



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