

In Demand Trading Drawing Office

Design | Engineering | Structural Analysis | Membranes
Dynatex S650 | Dynatex MF290 | Architectural PVCs



Make Digital Prototyping your competitive advantage

In Demand Trading (Pty) Ltd is the center of a connected product development system that enables you to purchase great products with professional grade engineering solutions.

Design issues?

- Clients want access to increased innovation in existing and new designs while reducing the time to market.
- Clients want the benefits of Digital Prototyping, but are worried about the cost and investments required for the design work.
- Designers need to optimize product performance and make accurate design decisions without building physical prototypes.
- Your sales teams require rapid creation of production-ready drawings.
- Your sales team can't easily find and reuse designs.
- Layout and conceptual designs take too long to develop.
- Designing new innovative products is complex and expensive.
- R&D is often inaccurate and costly.

Learn how we can help you take advantage of our extensive library of designs and how we can assist you in getting to the market quicker and more profitably.

Deliver innovative products faster

In Demand Trading (Pty) Ltd services provide professional engineering solutions for 3D design, structural analysis, product rendering and communication that help you take advantage of a Digital Models to make great products cost-effectively and in less time.

In Demand Trading (Pty) Ltd makes use of Autodesk Inventor software for Digital Prototyping. The Inventor model is an accurate 3D digital prototype that enables you to validate the form, fit, and function of a design as you work, minimizing the need to test the design with physical prototypes.

By enabling you to design, visualize, and simulate your products digitally, Inventor software helps you connect more effectively, reduce errors, and deliver great product designs faster. Make use of our extensive library of designs developed over the past 27 years in the tensile membrane industry or work with our professional team and let them turn your design dreams into reality.

Design and validate products digitally

With an intuitive design environment for developing initial concept sketches and models of parts and assemblies. Inventor software provides powerful parametric modeling, robust direct editing tools and advanced surfacing modeling capabilities with T-splines. We can automate the advanced geometry creation of intelligent components, such as membranes, steel frames, sail plates, tube and pipe runs, rigging and hardware. Inventor software also helps reduce the geometry burden so we can rapidly build and refine digital prototypes that validate design functions and help minimize manufacturing costs.

Traditionally, validating the operating characteristics of a design before it was built meant hiring expensive specialists. But with In Demand Trading (Pty) Ltd, you don't need to be a simulation expert to effectively simulate and optimize designs digitally.

By simulating stress with our structural analysis, and our stress analysis models we can predict deflection, and motion, you can optimize and validate your design under real-world conditions, before the product or part is ever built.





In Demand Trading (Pty) Ltd: move beyond 3D to Digital Prototyping

With Autodesk Inventor software, we can easily integrate AutoCAD® and 3D data into a single digital model to create a virtual representation of the final product. Inventor software helps us to realize the benefits of Digital Prototyping by providing an associative read connection to native DWG files so there's no risk of inaccurate translations. Utilizing valuable DWG data with Inventor can help compete more effectively, service your clients better, and do more in-house.

Services

In Demand Trading (Pty) Ltd offers the following services to our clients:

Standard designs, custom designs, 3D model formulation, renderings, manufacturing drawings, stress analysis, wind loading analysis, BOMs, hardware specification, rigging detailing, general assembly drawings, membrane patterns, foundation layouts.

Hyperlinks

[Thermoflex website](#)
[Shop Dynatex S650 Structures](#)
[Shop Dynatex MF290 Structures](#)
[Shop Architectural PVC Structures](#)
[Group of Companies website](#)
[In Demand Trading \(Pty\) Ltd website](#)

Improve design collaboration and communication

Reduce errors and associated engineering change orders before manufacturing by generating manufacturing documentation directly from our validated 3D digital prototype.

Our software offers rapid and accurate output of production-ready drawings directly from the 3D model. Inventor product bundles also include Autodesk® AutoCAD® Mechanical software for situations that require a high-productivity 2D mechanical drafting tool.

Our models are integrated with Autodesk® Vault, enabling the quick and secure exchange of design data and promoting earlier collaboration between design and manufacturing workgroups.

Different workgroups can manage and track all components of a digital prototype with free* Autodesk® Design Review software—the all-digital way to review, measure, mark up, and track changes to designs enabling better reuse of crucial design data, management of bills of materials (BOMs), and collaboration with other teams and partners.

Our models enable you to show case your intended design to your client in realistic photo real renders. Costing can be done accurately as the BOM are provided at conceptual stage well prior to quotation.



