



3D PDF

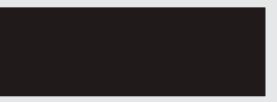
Transforming Your Supply Chain



Program

- What is a 3D PDF?
- Creating and controlling
- Supply Chain challenges
- Real world: High Tech Plastics
- Sharing the magic with your Vendors
- Wrap-up





What is a 3D PDF?



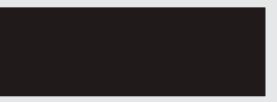
What a 3D PDF isn't

Not a new CAD format

Doesn't require special software to participate

Not for every one

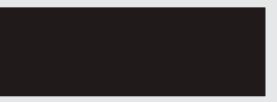




What a 3D PDF is!

- Works with many embedded objects
- Many formats, many solutions
- Container for various pieces of data
- Interactive approach to communicating information





3D PDF example (ca 2005)

TURBINE INDUSTRIES



Turbine Industries offers a full line of gas-turbine engines for a variety of maritime applications. Covering a range from 400 to 40,000 horsepower, our engines power ships from as large as destroyers and cruisers to as small as hydrofoils and private yachts. All products are derived from engine designs and technologies successfully service-proven in Pratt & Whitney's[™] aircraft engines.

Since the 1950s, our marine turbines have been used in a variety of military and commercial craft. This breadth of experience is a testament to the versatile design of our engine packages and includes: Air Cushion Vehicles , Assault Craft Cutters, Crew Boats, Cruise Ships, Cutters, Destroyers, Ferries, Frigates, High Speed Ferries, Hydrofoils, Ice Breakers, Minesweepers, Private Yachts, Race Boats, Surface Effect Crafts.



All of our marine engines are supported by our Customer Service and Aftermarket Services organizations. Customer Service provides a broad variety of technical services, including technical assistance, training and technical publications. Our Aftermarket Services team provides parts repair and overhaul services as well as comprehensive maintenance management services.

We are capable of performing all levels of engine overhaul for all Pratt & Whitney[™] engines and a growing number of our competitors' engines. Our global network of service facilities has a portfolio of offerings that is

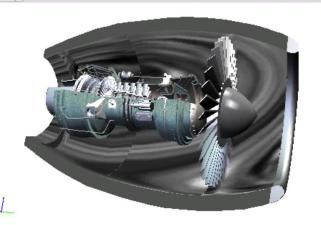
comprehensive and specifically structured to lower cost and optimize the engine's time on-wing.

Views

In addition, we have set the sta world's largest implementation o duction to retirement. Whether we perform feats of maintenance, manpower or information technology, we believe that every customer is truly unique and requires an ingeniously tailored solution.

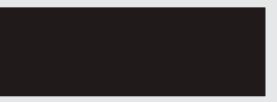
Our high bypass turbine design creates a very compact yet powerful system while maintaining a low noise profile due to efficient **airflow**.

The multi-stage compressor and combustion chamber coupled with a very effective fuel injection system create a highly reliable fuel efficient, compact power system for many applications.

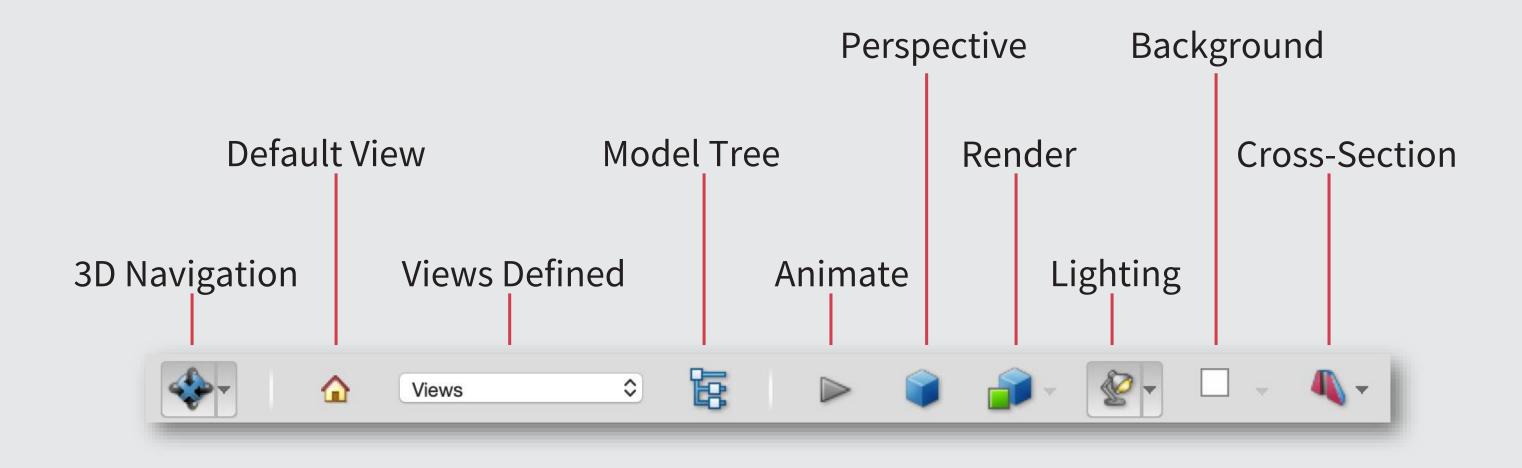


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3D PDF controls





Creating 3D PDFs





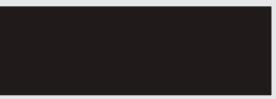
Adobe Acrobat Pro*

• Automation Solutions*

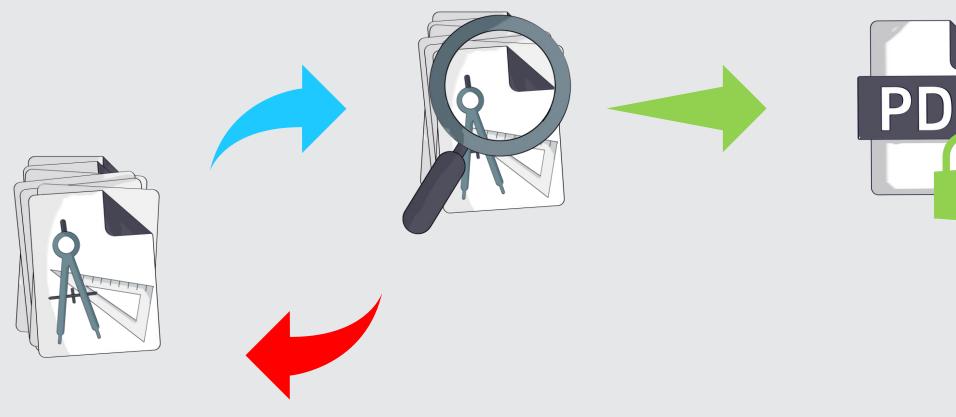
CAD Plug-In

*Tetra4D

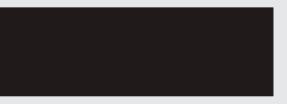




Supply Chain: Parts & Design









Supply Chain: Purchasing, Production

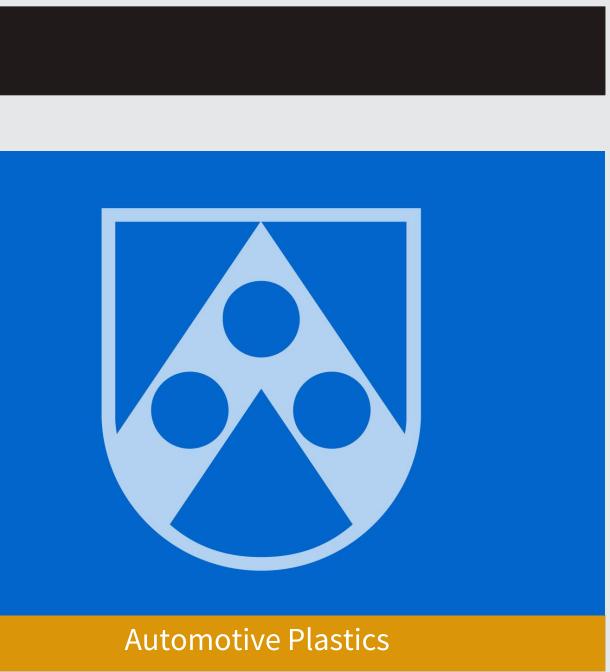






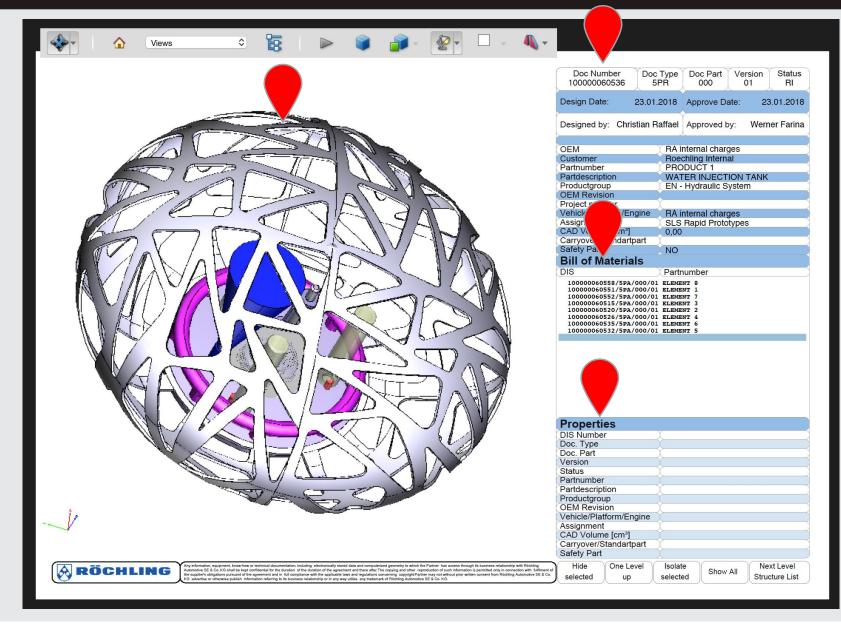
Röchling Automotive

- Build interactive documents from bills of materials
- Detail from across engineering to supply chain on one page
- Lifecycle stage specific generation

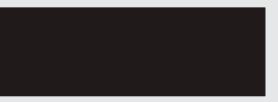




3D PDF with Bill of Materials

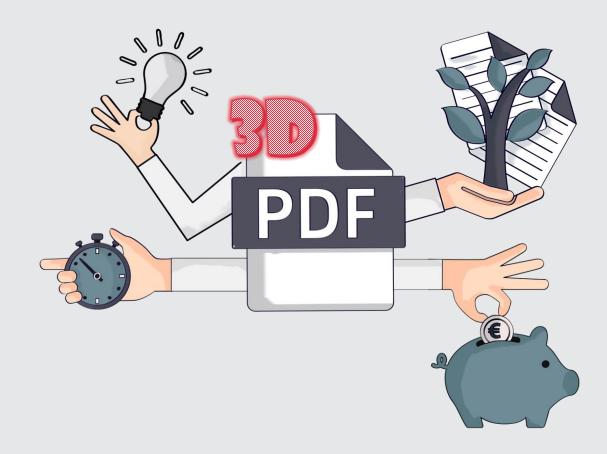




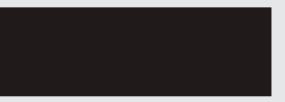


Wrap-up

- 3D PDF for complex data packages
- Multiple CAD and mixed-media documents
- Viewable in most tools
- Low cost startup to incorporate







Resources

- Google: "Interacting with 3D PDF" https://helpx.adobe.com/acrobat/using /interacting-3d-models.html
- Google: "Adding 3D Models to PDF" https://helpx.adobe.com/acrobat/using /adding-3d-models-pdfs-acrobat.html
- SEAL Systems: 3D PDF in the Supply Chain
- PROSTEP: CAD integrations and **3D PDF**
- Tetra4D: 3D PDF tools





SEAL Systems - @sealsystemsinc YouTube, Twitter, LinkedIn

- Global software publisher
- Corporate Conversion Solutions
- Output Management
- SAP, Windows, Unix and more
- Supply Chain, Logistics, Assets, **Documents**, Materials
- Compliance, Packages







STAMPS