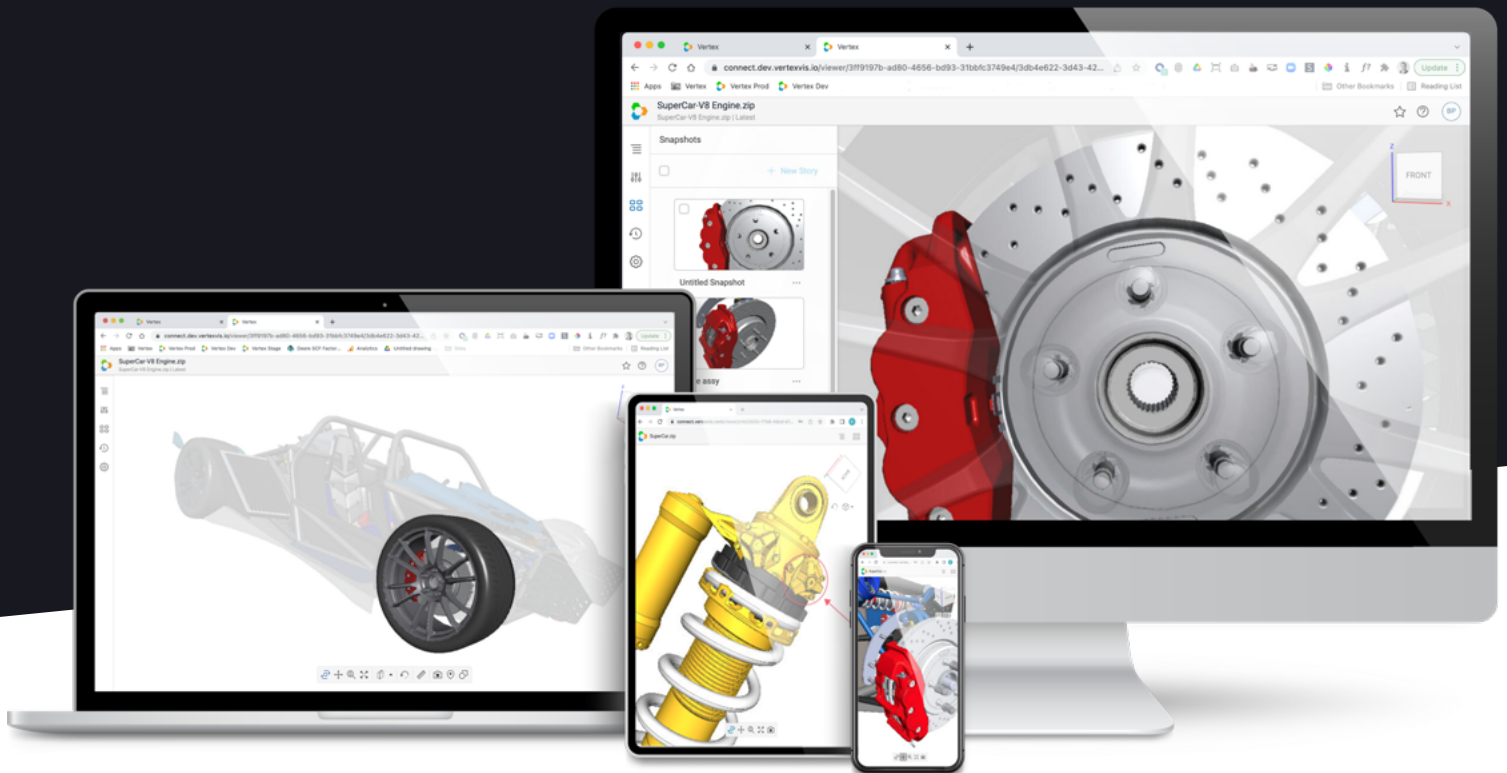# Unleash Your 3D Product Data

Reduce supply chain bottlenecks, accelerate time-to-market, and increase sales with cloud-based 3D visualization

vertex

DO YOU WANT MORE FROM YOUR CAD & PLM INVESTMENTS?

The sheer size and sensitive nature of CAD data, the cost of 3D hardware and software, and the number of data formats and software systems have made it nearly impossible to use 3D product data beyond engineering.

Now, Vertex makes it possible to engage your customers, employees, suppliers, and partners with 3D data wherever they are on whatever devices they use.

We extend the reach of your 3D data to reduce supply chain bottlenecks, accelerate time-to-market, and increase sales.

IMPROVE DECISION MAKING AND EXECUTION Make it easy for your customers, employees, and partners to share ideas with 3D data to drive more effective enterprise collaboration.
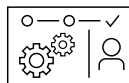
EXTEND THE REACH OF 3D Realize the full potential of your 3D CAD and PLM investment by enabling instant access to 3D data anywhere on any device.

SAVE TIME & MONEY Speed up 3D collaborative workflows and recover more than 80% of your time translating, formatting, sharing, and collecting design information. Reduce hardware and software costs by 50%.
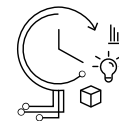
UNLEASH THE FULL POTENTIAL OF YOUR 3D PRODUCT DATA

Sales & customer engagement

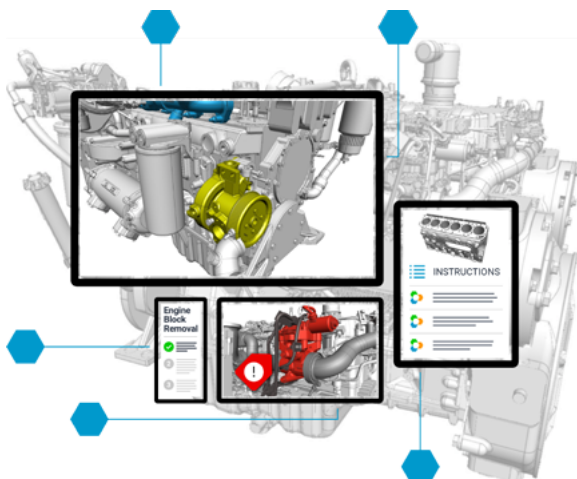Customer installation testing and validation

Product design reviews

Factory digital work instructions and quality reporting

Service manuals and parts catalogs

Supplier RFQs

"It cuts down any problems, issues, or confusions in the initial purchasing with us taking ownership of the truck. Vertex helps us get exactly what we want when they deliver the truck."

– Terex Customer

"It has helped me sell more trucks. Vertex improves the quality of the sales process and improves the quality of the final product."

– Lucas Thompson, Territory Sales Manager, Terex

vertex · CONNECT™

3D COLLABORATION FOR EVERYONE

Vertex Connect™ is a revolutionary web-based app that enables you to share and collaborate with CAD and BIM data on any device; not just laptops and desktops but phones and tablets too. Onboard in minutes and start sharing 3D CAD data instantly.

IMPORT Upload any major CAD or neutral file format, track version history, and take complete control over how you share CAD data. Our data API supports direct integration with PDM, PLM, ERP, and MES systems.
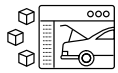
SHARED WORKSPACES Collaborate with coworkers using our secure approach for sharing CAD data and other file types. Create secure cross-org workspaces for suppliers and partners.

DATA SECURITY Benefit from our world class approach to security that keeps your data safe in the cloud and enables you to collaborate without needing to have any 3D data on your device.

METADATA Search and view metadata from CAD and other data sources to quickly identify, select, and operate on parts and assemblies.

MERGE MODELS Combine 3D CAD data from different file formats to create a unified full-product model for collaborating with suppliers and partners.

CROSS SECTION & MEASUREMENT Create cross sections and measurements of massive CAD data and share with collaborators instantly.
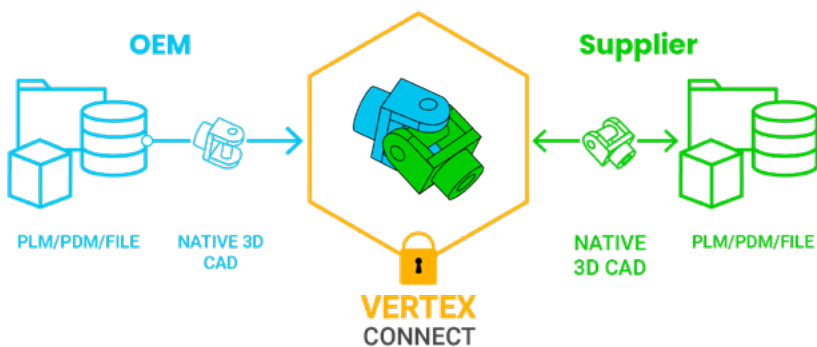
3D SNAPSHOTS Capture your camera view along with 3D transforms, material colors, and markups; including 3D pins, shapes, freehand drawings, comments, and text. Easily update snapshots with new model revisions.

VERTEX STORIES Share 3D snapshots and comment, markup, measure, and cross section together with your collegues. Create, track, and resolve issues, attach other file types, and selectively give collaborators access to cross sectioning, measurement, and model export.

3D EXPORT Export your entire model or a reduced-BOM to a neutral format regardless of the file formats you imported.

OEM
PLM/PDM/FILE   NATIVE 3D CAD

Supplier
NATIVE 3D CAD   PLM/PDM/FILE

VERTEX CONNECT

"The ease of which we can now share 3D models minimizes complexity by giving the customer a more thorough opportunity to review designs."

– Kyle Wiesner,
Engineering Manager, Terex Utilities

vertex · 3D PLATFORM

3D COLLABORATION FOR EVERYONE

The Vertex 3D Platform enables you to embed interactive 3D content in web-based and native apps quickly and easily. Get a jumpstart with our open-source SDK and its ready-made UI components and utilities. You don't need 3D experience to get started.

3D MODEL AND METADATA IMPORT Upload any major CAD or neutral file format, store and access multiple revisions. Our data API supports direct integration with PDM, PLM, ERP, and MES systems.

DIGITAL MOCKUP FEATURES Create 3D snapshots or access those from Vertex Connect, create cross-sections, perform precise measurements, add 3D pins and annotations, and search metadata.

UNTETHERED MASSIVE MODELS Build powerful 3D applications with massive multi-CAD, multi-BIM, and multi-PLM scenes showing complete manufacturing, architecture, and construction designs.

DYNAMIC SCENES & OBJECTS Modify 3D scenes on the fly and see changes instantly. Update scene structure, object position and orientation, visibility, material color, transparency, cross-sectioning, measurement, and more.

OPEN SOURCE SDK Join our Developer Community and get a jumpstart building 3D applications. The SDK has all you need to get started, including React Component Bindings, Node API and Java Clients, HTML 5 Web Components, and more.

DATA SECURITY Our world-class approach to security keeps your data safe in the cloud and enables you to build powerful 3D apps without needing to deliver 3D data to the end-user device.

powered by aws

POWERED BY AWS The Vertex 3D Platform runs on AWS. Like AWS, we offer usage-based pricing enabling you to pay as you go. Visit AWS Marketplace to get started.
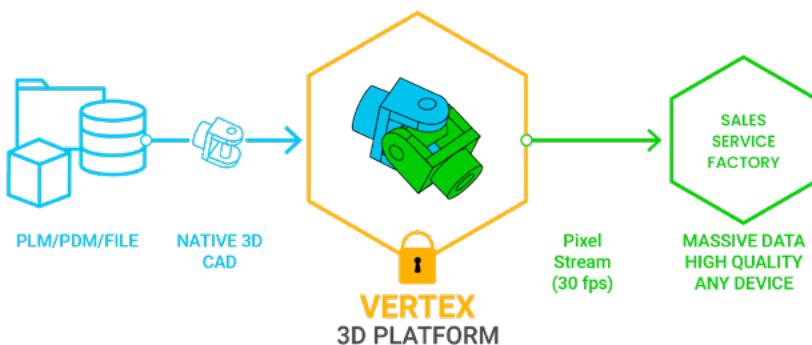
HIGH-PERFORMANCE REST API Use our high-performance REST API to import and export data, build, render, and update 3D scenes, and deliver high-quality interactive 3D to any device. Keep your UI in sync with 3D scenes and data events using WebHooks.

MERGE & EXPORT Combine 3D CAD and BIM data from different file formats to create a unified scene. Then, export an entire model or a subset to a neutral format regardless of the file formats you imported.

PLM/PDM/FILE   NATIVE 3D CAD

VERTEX 3D PLATFORM

Pixel Stream (30 fps)

SALES SERVICE FACTORY

MASSIVE DATA HIGH QUALITY ANY DEVICE

"The capabilities we see in the Vertex Platform are a source of competitive advantage for us as we look to bring our Smart Factory vision to life."

- Program Manager, Smart Factory, F100 Customer

vertex

3D COLLABORATION FOR EVERYONE

WHAT MAKES US DIFFERENT

ZERO INSTALL We deliver a revolutionary zero-install, cloud-based approach to industrial 3D visualization that supports scale of use and quality never before thought possible.

DEVICE AGNOSTIC We are ideal for broadly distributed 3D solutions for mobile and low-power devices common to supply chain, sales, service, and factory workflows in multi-CAD and multi-PLM organizations

MASSIVE MODELS We enable fully-interactive visualization of large 3D models that are otherwise impossible to view even on today's most powerful computers. With Vertex, you can instantly view CAD or BIM data for full products and entire factories.

COMBINE DATA WITH EASE We make direct integration with manufacturing data systems easy. Eliminate cumbersome data translation workflows required for 3D solutions. Merge data from multiple CAD, BIM, and PLM systems without intermediary files and storage systems and associate metadata from any source.

QUICK TIME-TO-VALUE We provide turnkey web-based software and developer tools that make sharing 3D data and embedding 3D content in software applications fast and easy.

NO FILES We stream pixels, not part files, ensuring your IP is always under your control and protected from incidental disclosure.

"The value Vertex brings is their partnership. They excel at the Customer Service and Support. They have a willingness to listen and make improvements..."

– Ethan Roth, Project Engineer, Hose & Harness Routing, Vermeer

ABOUT US

At Vertex Software, we believe 3D visualization is the premier communication medium for the future of human innovation. We strive every day to accelerate global innovation, discovery, and idea exchange. Our solutions drive customer satisfaction, grow market share, engage suppliers and partners, and energize employees.

Ready to try **Vertex Connect™**?
Visit vertexvis.com/try-connect to sign up for a trial.

Ready to try **Vertex 3D Platform**?
Visit vertexvis.com/try-platform to sign up for a trial.

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