

SOLIDWORKS PREMIUM

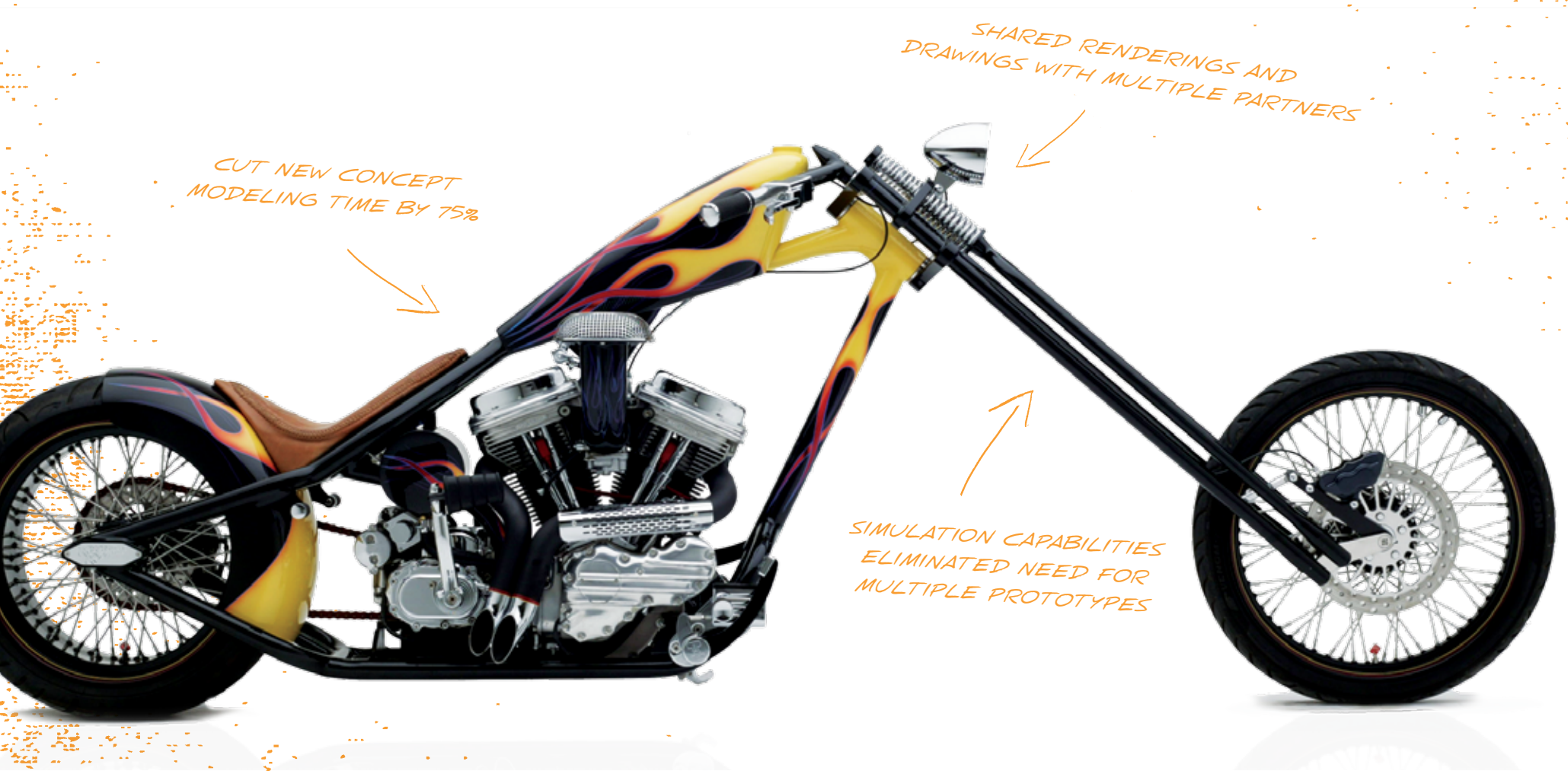
*"I needed to model
innovative concepts
and put 3D models in the hands
of my machine shop instantly."*




SolidWorks

One of Redneck Engineering's latest concepts, designed in SolidWorks.

See how SolidWorks Premium helped them streamline another project on page 5.



CUT NEW CONCEPT
MODELING TIME BY 75%

SHARED RENDERINGS AND
DRAWINGS WITH MULTIPLE PARTNERS

SIMULATION CAPABILITIES
ELIMINATED NEED FOR
MULTIPLE PROTOTYPES

SOLIDWORKS PREMIUM IS THE ULTIMATE TOOL YOU NEED TO DESIGN, MANAGE, TEST, AND COMMUNICATE ALL YOUR MODELS

Built around our 3D CAD software, SolidWorks® Premium provides a complete suite of built-in simulation, routing, and presentation tools. You'll also have our highest level of support anytime you need it.

With SolidWorks® Premium, you'll maximize your individual design talents and improve collaboration across your entire department. The software's key features include:

- ▶ A comprehensive set of 3D design tools with powerful part, assembly, and drawing capabilities
 - ▶ Fast and secure access to design data
 - ▶ Piping and electrical routing capabilities to streamline your design
 - ▶ Simulation and finite element analysis (FEA) tools to reduce the number of prototypes
 - ▶ Presentation tools to create model animations and photorealistic renderings
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This is the story of what SolidWorks Premium can do for you, as told through the eyes of three SolidWorks customers.



Ramboll Group



Redneck Engineering



BERCHTOLD Corporation

RAMBOLL GROUP

Offshore wind technologies

*"We were looking for easier management of data,
sharing of design information, and
better collaboration."*

SOLIDWORKS PREMIUM GIVES YOU EASY, SECURE ACCESS TO UP-TO-DATE DESIGN DATA

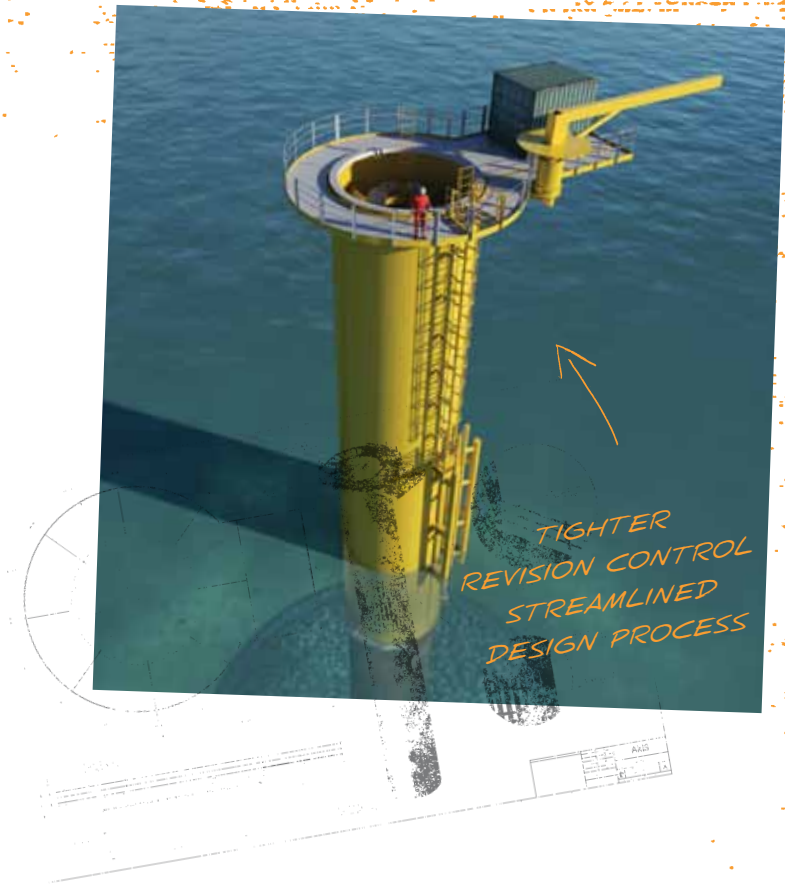
The Ramboll Group is a global engineering consultancy that creates offshore wind turbine towers for sustainable energy. These incredibly complex structures must be built to withstand tides, waves, currents, and forces 30 meters below the seabed that anchors them. For both safety and efficiency, all individuals assigned to a design project must work in unison—no matter which of the company's 200 offices they work from.

That's why when the company decided to upgrade to 3D CAD, they knew an integrated product data management system would be vital. So they chose SolidWorks® Premium. "We gained tighter revision control and traceability throughout the design process," says Structural Engineer Filipe Angelo.

Now, the company's designers, partners, and manufacturers are using the most current design data. This not only helps them prevent errors, but also has eliminated accidental file overwriting.

Operating more efficiently is also making the Ramboll Group a more innovative company. "Innovation has helped us gain a commanding share of the offshore wind turbine market," Angelo notes, "and SolidWorks is one of the tools that helps us innovate freely."

- ▶ Increased design accuracy by 20%
- ▶ Secured 60% of the offshore wind power market
- ▶ Improved design data management
- ▶ Fostered greater innovation through collaboration



▶ KEY BENEFIT

DATA MANAGEMENT ENSURES THAT EVERY MEMBER OF YOUR TEAM WORKS WITH THE RIGHT FILES

SolidWorks Premium gives managed data access to your designers, partners, and suppliers—anywhere in the world. The software's revision control automatically prevents costly errors like accidentally overwriting files by ensuring that the most current designs are being used. For maximum flexibility, data can be securely accessed through your network or the Internet. And with advanced search tools, designers can save huge amounts of time by quickly finding and accessing any CAD file they need.



REDNECK ENGINEERING

Specialty motorcycle development

"In the past, we had to produce a prototype to

test a part.

Now, we no longer have to waste that money."



ELIMINATED THE NEED FOR MULTIPLE PROTOTYPES

IMPROVED SUSPENSION THROUGH DESIGN VALIDATION

SOLIDWORKS PREMIUM LETS YOU FULLY TEST DESIGNS BEFORE EVER BUILDING A PHYSICAL PROTOTYPE

Redneck Engineering was founded as a custom motorcycle company. But as demand for their choppers and bikes quickly grew, they began offering a standard manufactured line. As the emphasis on standard models increased, so did the company's need to accelerate conceptual modeling, reduce development costs, and streamline production. That meant making the switch to 3D CAD and finding a way to reduce physical prototypes.

"We wanted to streamline the whole process," explains Owner Vince Doll. With SolidWorks® Premium, Redneck now creates complex models involving sheet metal and surfacing—and optimizes them using built-in analysis tools. "We've been able to cut down materials and make our bikes lightweight by simulating stress points and evaluating bending deformation."

These new rapid virtual prototyping capabilities reduced Redneck's development costs by 50%, minimized the need for design rework, and shortened their time to market. They also allowed for additional innovation time, which resulted in an even more expansive product line.

"For many years, we built only rigid mounted motorcycles with no rear suspension. After we implemented SolidWorks Premium, we released five new soft tail models."

- ▶ Cut development costs by 50%
- ▶ Reduced concept modeling time by 75%
- ▶ Improved design visualization
- ▶ Streamlined development and expanded product line



▶ KEY BENEFIT

SIMULATE A WIDE RANGE OF REAL PHYSICAL CONDITIONS AND OPTIMIZE DESIGNS ACCORDINGLY

SolidWorks Premium allows you to run an assortment of simulations and finite element analysis (FEA). From integrated tolerance stackup analysis to "what if" structural tests, you'll know how your design is going to perform long before you ever build a physical prototype. You'll also be able to assess how the parts will oscillate or move during operation and even what the environmental impact of a design will be over its life cycle—so you can fully optimize your models as you create them.

BERCHTOLD CORPORATION

Operating room equipment development

*"We needed to apply
engineering data across
the entire business."*

SOLIDWORKS PREMIUM LETS YOU DYNAMICALLY PRESENT DESIGN CONCEPTS TO ANY AUDIENCE

BERCHTOLD Corporation has long been the top manufacturer of medical operating equipment in North America. When the company decided to expand globally, they knew success meant finding new efficiencies in all areas of their business. They chose SolidWorks® Premium to help them do that in design, sales, and marketing.

In addition to benefiting from SolidWorks design offerings, the BERCHTOLD team quickly streamlined and integrated their entire customer sales process. With SolidWorks Premium's assembly configuration capabilities and open application programming interface (API), Designer Ted Atchley created his own automated quoting application.

The application also allows sales representatives to use SolidWorks to quickly customize proposals based on a hospital's dimensions, needs, and specialization.

BERCHTOLD's marketing department is also benefiting greatly from SolidWorks Premium. With built-in photorealistic rendering functionality, they're able to create their own photorealistic renderings and model animations for marketing materials. "SolidWorks has enabled us to apply engineering data across the entire business," says Patrick Brown, R&D engineer.

- ▶ Improved quoting efficiency by 75%
- ▶ Dramatically increased profit margins
- ▶ Supported annual revenue growth of 20% to 30%
- ▶ Allowed designers, sales representatives, and others to present designs more effectively

▶ KEY BENEFIT

COMMUNICATION TOOLS LET YOU EASILY SHARE COMPLEX DESIGNS WITH MANUFACTURERS AND PARTNERS

SolidWorks Premium has a suite of built-in tools that allows you to email detailed design renderings and complete drawings. eDrawings® lets you share 3D designs with downstream suppliers who may not have SolidWorks. With built-in mark-up capabilities, eDrawings can also be used to conduct full design reviews via email. Customers and suppliers will experience your designs in 3D—and measure, rotate and manipulate them in ways that would be impossible in 2D.





IMAGINE WHAT SOLIDWORKS
PREMIUM CAN DO FOR
YOUR COMPANY

You've seen the impressive results SolidWorks® Premium has generated for these unique companies. Now find out what our comprehensive suite of design tools can do for you. Talk to your local SolidWorks Value-Added Reseller or visit www.solidworks.com to learn more about the software's integrated features and functionality.

PRODUCT FEATURES

SOLIDWORKS
STANDARD

SOLIDWORKS
PROFESSIONAL

SOLIDWORKS
PREMIUM

CAD Capabilities

Easy Heads-Up User Interface	●	●	●
Part and Assembly Modeling	●	●	●
Production-Quality 2D Drawings	●	●	●
Realistic Real-Time Rendering	●	●	●
Advanced Surfacing	●	●	●
Data Translation (Import/Export)	●	●	●
Sheet Metal Design	●	●	●
Welded Structures Design	●	●	●
Plastic Part and Mold Design	●	●	●
Large Assembly Management and Performance	●	●	●
Assembly Motion Visualization and Video Capture	●	●	●
Part and Assembly Checks (Interference, Draft)	●	●	●
Automatic Bill of Materials (BOM)	●	●	●
Design Automation	●	●	●
Intelligent Modeling Capabilities	●	●	●
Design Reuse	●	●	●
Design Collaboration		●	●
Automatic Feature Recognition		●	●
Standard Hardware Libraries		●	●
Photorealistic Rendering		●	●
Design Standards Checking		●	●
Advanced Productivity Tools		●	●
Import and Create Geometry Using Scanned Data			●
Routed Systems (Cable and Harness, Pipe, Tube, Hose)			●
ECAD-to-MCAD Integration			●

Data Management Capabilities

Secure Access		●	●
Revision Control		●	●
Find Files		●	●

Design Validation Capabilities

Tolerance Stackup Validation			●
Structural Simulation of Parts and Assemblies			●
Mechanism and Motion Simulation			●

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