

# VISUAL COMPONENTS ESSENTIALS



Visual Components Essentials is our core manufacturing simulation product.

Design, build, and simulate your factory of the future using ready-made components.



## LAYOUT CONFIGURATION

Configure layouts using our simple, component based system. Use your own custom components and CAD models, or our free eCatalog, which includes 2,000+ pre-built components.



## PROJECT READY DELIVERABLES

Export presentation-ready content of your work fast: 4K videos, 3D PDFs, 2D drawings, HQ pictures, statistics dashboards, and more.



## SIMPLE ROBOTICS

Define, model, and simulate robotic behavior and actions. Perform analyses such as reachability and collision detection.



## PLC CONNECTIVITY

Connect simulations with your control system using OPC UA or supported vendor specific interfaces.



## VISUAL COMPONENTS EXPERIENCE

Experience 3D simulations you've designed with Visual Components products on mobile and in virtual reality.

# How does 3D simulation deliver value for manufacturers?



## DESIGN SMARTER SOLUTIONS

Design smarter production solutions with technology that's purpose-built for manufacturing design. Design, test and simulate new production solutions in a risk-free, virtual environment.



## VALIDATE CHANGES VIRTUALLY

Design, test, and simulate changes to production configurations in the virtual world first. Minimize downtime and avoid costly pauses, rework, and design changes downstream.



## GET PREDICTABLE PERFORMANCE

Plan new projects with confidence. Discrete event simulation software allows you to simulate complex processes and workflows, so you get accurate performance calculations to make informed decisions.



## ACCELERATE STAKEHOLDER BUY-IN

Present your solutions in a format everyone can understand, such as video, 3D PDFs, 2D drawings, and even virtual reality models. Eliminate knowledge gaps and communication barriers that keep projects from moving forward.



## STREAMLINE CONCEPT DESIGN

Reduce the time it takes to design and validate production layouts. Develop manufacturing concepts faster; with a large library of ready-to-use components, the ability to import most CAD file types, and simple workflows for creating your layout.



## IMPROVE ROI ON NEW MANUFACTURING PROJECTS

Use 3D manufacturing simulation software to get the most out of your project budget; maximize performance, avoid expensive mistakes, and visualize opportunities for improvement and cost savings.

# VISUAL COMPONENTS PROFESSIONAL

**Visual Components Professional is our component creation solution.**

It includes everything in Essentials and gives you the tools to model and create your own components.

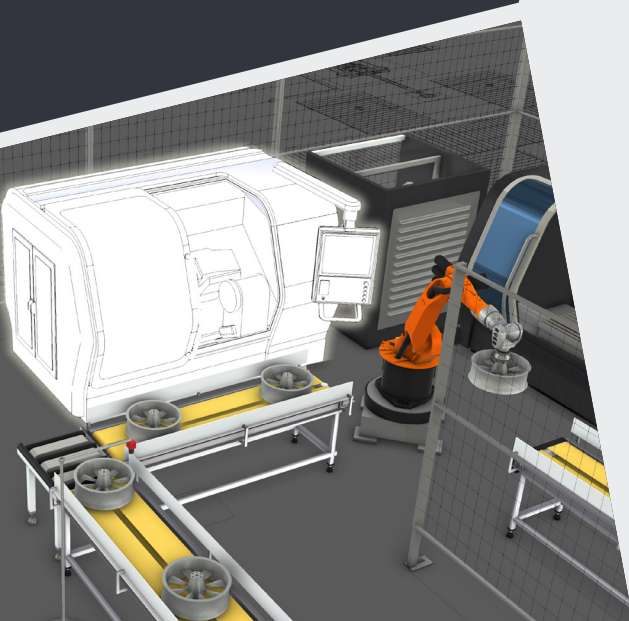
## COMPONENT MODELING TOOLKIT



Bring your CAD files to life with the component modeling toolkit in Visual Components Professional.

- ▶ Add kinematic structures and functional behaviors to imported CAD models
- ▶ Modify feature details of existing models
- ▶ Build your own personalized library of components

Visual Components supports CAD file types from many of the leading CAD vendors, making it easy to import geometry files created with popular software applications by Autodesk, Dassault, PTC, Siemens, and others.



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# VISUAL COMPONENTS PREMIUM

Visual Components Premium is our complete manufacturing simulation solution.

It includes everything in Essentials and Professional, plus more features for advanced robotics applications.

## ADVANCED ROBOTICS TOOLKIT



The robotics toolkit in Visual Components Premium provides advanced features for offline programming and robot simulation.

- ▶ Teach robot paths of positions using the robot program editor
- ▶ Accelerate path planning with the curve selection tool
- ▶ Develop your own robot path planning and teaching tools with the topology API

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### VIRTUAL REALITY

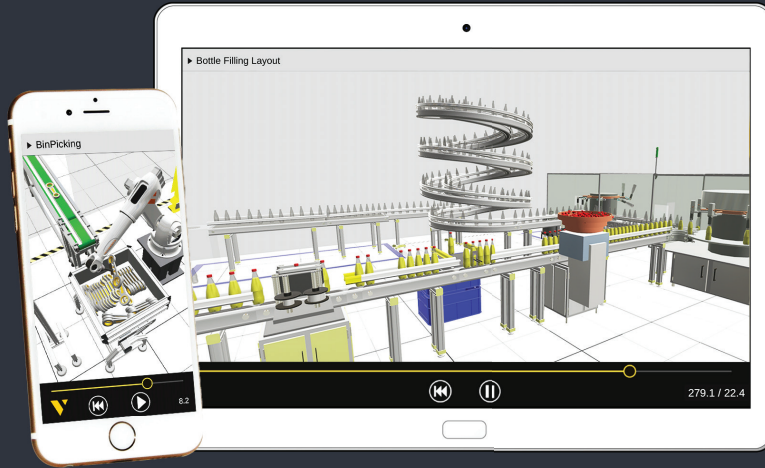
#### A fully immersive and engaging experience

Our Virtual Reality application introduces a new way for manufacturers and system integrators to approach production design and planning. Amaze your audience by letting them experience your layouts and 3D simulations in a fully immersive and virtual environment.

### MOBILE VIEWER

#### Share your simulations and layouts on-the-go

Our mobile application makes it easy for manufacturing professionals to share their production design solutions on-the-go. The VCE mobile application works on both iOS and Android devices, and is available for free on the App Store and Google Play.



DOWNLOAD APP FOR FREE  
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