

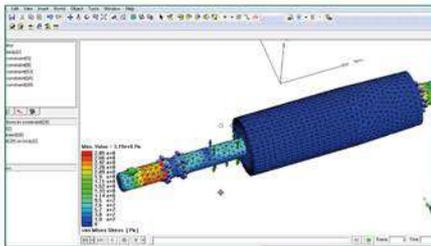
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## ZW3D For Mechanical Design

### Overview

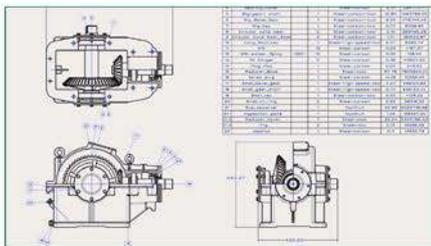
ZW3D delivers a full set of tools, like parametric design technology, customized part library, intuitive assembly design, vivid 3D annotations, and efficient 2D sheet etc., assisting you to model from sketches to assemblies. A flexible & powerful designing environment is delivered to help accelerate product development, shorten time-to-market and save budget.

### Top 5 Reasons to Choose ZW3D



#### 1 Parameterized & Customized Part Design

The variables and expressions can have your parametric design be more manageable. Plus, the built-in standard part library can save engineering time.

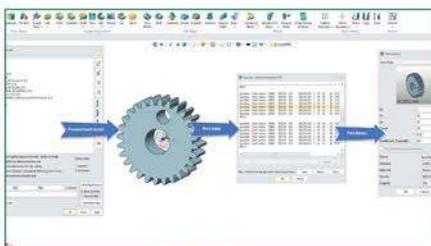


#### 2 Intuitive Assembly Design

Simulating how the components are assembled to verify the manufacturability of products. Both up-bottom and bottom-up assembly are provided to improve the flexibility of design.

#### 3 Diverse Verification Functions

Offering functionalities from interference checking to motion simulation, ZW3D helps you eliminate errors during design and ensures your design meets the corresponding requirements.



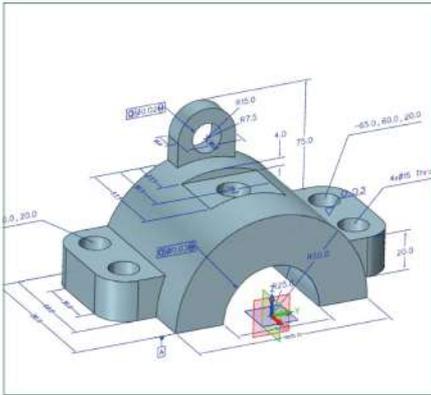
#### 4 Efficient 2D Drawing

2D Drawing views reflect your 3D design and changes efficiently. Automatically create your BOM for downstream purchasing and manufacturing operations, and BOM is updated when the model changes.

#### 5 Visualized 3D Annotation

By defining dimensions & annotations directly on 3D models, ZW3D helps you enhance and shorten the design cycle, accelerate decision making.

# Highlights of ZW3D Mechanical Design



## 1. Parametrical Design And Part Library

- Equation set can quickly create & manage mass of variables and expressions.
- Equation curve helps quickly create the various 3D curve for the complicated shape.
- Built-in part library provides all of the necessary standard parts and online part library, helping to extend the capability.

## 2. Assembly Design

- Intuitive alignment operation makes assembling easier.
- Normal & special mechanical constraints are provided to solve complicated mechanical mate problems in no time.
- Automatic detection of the constraint status speeds up design processes.
- Exploded views can be generated according to alignment or configuration.

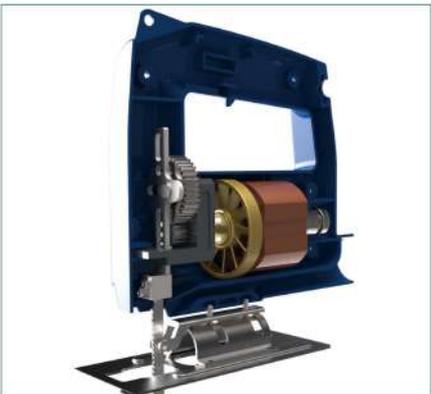


## 3. Analysis and Motion Simulation

- Interference check helps to identify ill-performed structure rapidly.
- Motion simulation verifies the rationality of mechanism as required.
- Built-in animation function simulates the whole process of mechanism movement.

## 4. PMI and 2D Sheet

- View based PMI can create 3D dimensions & annotations on 3D models, and they can be inherited by 2D sheet.
- 2D sheet supports mainstream industry standards, like ANSI, ISO, DIN, JIS, GB, and much more.
- Dimension styles & 2D sheet templates can be easily customized.



## 5. Add-on FEA and Render

- Simwise for ZW3D can greatly extend the software's capability in Finite element analysis.
- KeyShot for ZW3D assist you to fulfill the last mile for the whole product design by providing professional rendering functionalities.

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