KOMPAS-3D v18
more than 100 novelties
Key novelties
1. Interface improvements
2. Enhanced productivity
   • Working with large assemblies improvements
   • Productivity improvements
3. Functionality improvements
Interface improvements
Some key interface novelties of v17 and v18
Light and Dark color scheme
Various color schemes and mode settings
Quick preview of opened files in tabs
Modes Color indication
Hidden toolbars +20%
Did you know that:
If there are enough parameters set to complete an operation, you don’t have to press the “Create Object” button. You can run a command from another group, meanwhile, the current command will be automatically completed, and the object created by this command will be fixed in the document.
Search and run commands
Keyboard settings

- Apply changes without closing the dialog
- Working off of the conflicts
- Print a list of hotkeys
Enhanced productivity
Working with large assemblies
Process acceleration

• with 3d-model

• with drawings

• With a BOM
Multithreading

- Drawings
- 3d-models
- Calculations
  - APM FEM
  - KompasFlow
  - Artisan Rendering
Fast model rendering
Fast rendering during rotation

400 + components
Fast rendering during rotation

100,000+ components

KOMPAS-3D v17

KOMPAS-3D v18
Same model during View Shift
## Hardware requirements

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<tbody>
<tr>
<td><strong>OS</strong></td>
<td>x86, x64</td>
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<tr>
<td><strong>CPU, GHz</strong></td>
<td>OS$_{\text{min}}$</td>
<td>≥3</td>
<td>≥4</td>
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<tr>
<td><strong>Memory RAM, GB</strong></td>
<td>OS$_{\text{min}}$</td>
<td>≥8</td>
<td>≥16</td>
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<td><strong>Video</strong></td>
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<td>NVIDIA OpenGL 4.5</td>
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<tr>
<td><strong>Video memory, GB</strong></td>
<td>OS$_{\text{min}}$</td>
<td>≥2</td>
<td>≥4</td>
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Acceleration effects

Combined cycle gas turbine
"TRUST NWEM" (St. Petersburg)
Number of components: 100,774

Hardware parameters
OS: Win10 x64 Pro
CPU: Intel Core i7-6700K, 4 GHz, 32 Gb
GPU: NVIDIA Quadro P2000, 5 Gb
### Парогазовая установка ПГУ

Количество компонентов: 100 774

<table>
<thead>
<tr>
<th>Процессы</th>
<th>Время выполнения [сек]</th>
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<tbody>
<tr>
<td>V16</td>
<td>v17</td>
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</table>
# Acceleration effects

The total time of 17 process measurements is calculated as follows:

**Σ [h:min:sec]**

<table>
<thead>
<tr>
<th>V16</th>
<th>v17</th>
<th>v18</th>
</tr>
</thead>
<tbody>
<tr>
<td>04:19:31</td>
<td>01:41:28</td>
<td>00:06:02</td>
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</table>

This represents the sum of times for each process measurement.
Enhanced functionality
Working with large assemblies
Layout geometry – get the real power of prototyping.
Draft projecting
Rebuild selected view
3D-functionality improvements
New fillets
New holes
Inserting group of components to assembly
Realistic transparency (comeback)
Projection of external contour lines to Sketch
Centerlines in the model
Thread symbols in the model
Update of a geometry copy
Sheet metal
Strengthening edge profile
Bend by Sketch
Spherical Beats
Place Bend lines on flat pattern directly
Flat pattern dimensioning
2D-functionality novelties
Round grid of centers
Linear grid of centers
Auto center
Quick Actions on Components in a Drawing:
To show in the Tree
Properties of a component
To edit in a window
To hide a component
To cut / not to cut
Projected component fast selection

Ctrl+Shift+click
Clear region
Dimension text quick adjusting
Add-Ons novelties
Steel constructions – bolt connections
Typical connection
[Steel constructions]
Gap for welding

[Pipelines]
• Connection point
• Choice of style of the pipeline

[Pipelines]
Flexible hoses

[Pipelines]
Hydrogas dynamics and thermal conductivity calculations

[KompasFlow]
Topological optimization

[APM FEM. Topological optimization]
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KOMPAS-3D v18.1

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