

nanoCAD Mechanica 8.5: New Software Version for Mechanical Engineering and Drawing Design

June 8th, 2018 -- Nanosoft announces the release of nanoCAD Mechanica 8.5 – a new software version intended for designing and preparing drawings and other technical documents in mechanical engineering in line with the most common global standards.

nanoCAD Mechanica contains a comprehensive base of standard elements often used in engineering design. These are various bearings, fasteners, springs, gearboxes, electric motors, etc. Many elements of this base are parametric objects and have certain relations with each other, set by the rules of engineering standards. This allows you to design smart parameter-controlled assembly drawings, create different options and variations of both individual components and products as a whole.

Availability of a large number of design documentation tools in accordance with ESKD (unified system for design documentation as per the relevant GOST) and ISO gives nanoCAD Mechanica a great advantage among similar solutions of the same class.

nanoCAD Mechanica is a convenient tool for designing bolted and riveted joints, shafts, mechanical gears, pipelines, vessels, apparatuses, and other mechanisms. The app can be used for strength calculation of different types of gears. Using nanoCAD Mechanica, you can also perform engineering calculations of springs, shafts, and bearings.

nanoCAD Mechanica built on the basis of the improved 2018 release of nanoCAD Plus 8.5, has incorporated all the improvement of the platform. The new version of the mechanical engineering app provides its users with state-of-the-art tools for designing and tuning mechanical engineering drawings that fully meet the requirements of Russian regulations and the most frequently used international standards (DIN, ISO, CSN, EN, etc.).

New Features of nanoCAD Mechanica 8.5

The nanoCAD Mechanica 8.5 developers continued the policy of improving the software on user requests.

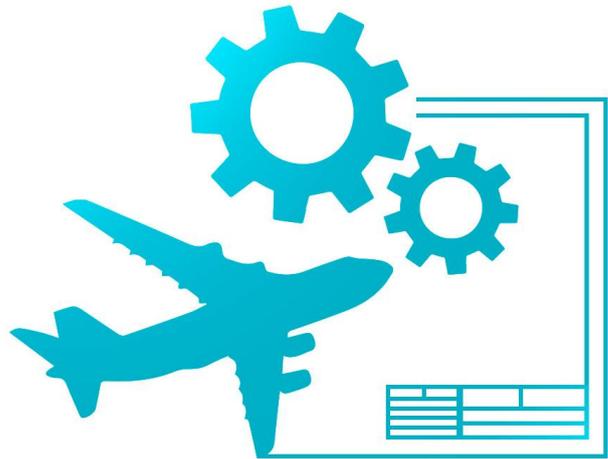
According to their wishes for the specification functionality (see our [forum](#)):

Contacts:

Web site: www.nanocad.com

E-mail: nanocad@nanocad.com

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- a new specification type has been created: “Wiring”;
- the settings of the specification editor have been significantly extended;
- a new setting has been added “User-defined value in leader line”.

New groups of objects have been added to the base of elements, which can be used in engineering design:

- pulleys of flat-belt, V-belt, poly-V belt, and toothed belt drives;
- sprockets of single and multiple strand chain drives;
- flanges as per new GOST 33259-2015 standard;
- hygienic DIN 11851 fittings;
- ASAHI bearing units;
- geared motors;
- gearboxes;
- AIR series electric motors;
- tap valves;
- valves;
- gate valves;
- blocks and forms of process documents;
- new sketches for auxiliary and main instruments;
- stoppers and plugs.

The Editor of technical requirements and specifications has been extended with new features.

There are new fields displaying the property value of another object (primitive, file, document, etc.).

The “General description of objects” and “Standard” properties allow for finding all the relevant objects in the drawing by means of a quick search and generate reports on the same.

A full list of changes is available in the **What’s new?** document.

What’s new?

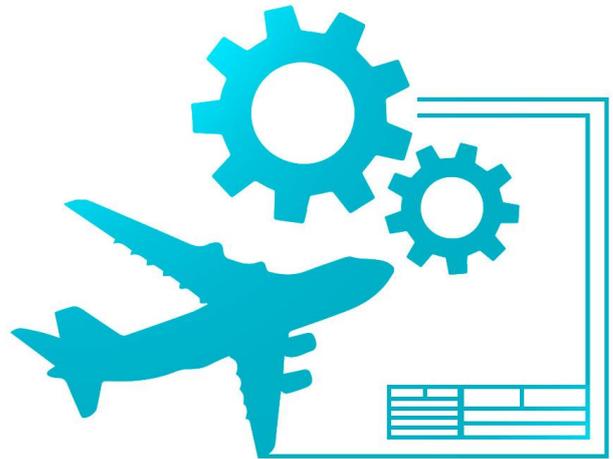
1. The nanoCAD Plus platform

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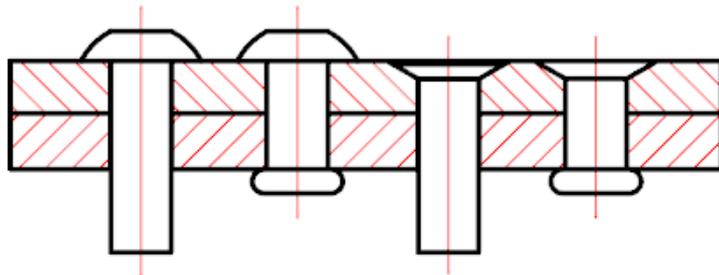
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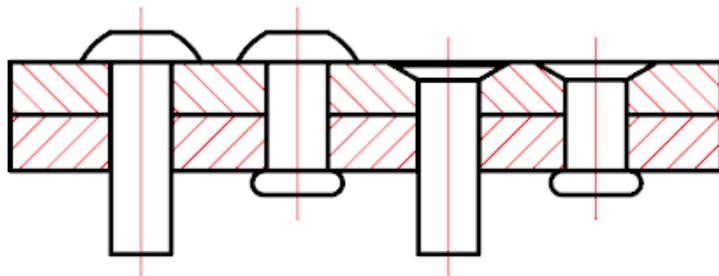


The app is based on an OEM version of the nanoCAD Plus 8.5 platform.

2. Fasteners as per aviation standards
 - Distance sleeves made of aluminum alloy
 - Hex-head bolts with f7 tolerance shank diameter for articulated joints
 - Round-headed bolts
 - Hex-head screws
 - Hex-head screws with head slot
 - Round-headed screws
 - Pan-head screws



- Pan-head rivets
Blind rivets with an angle of 120°



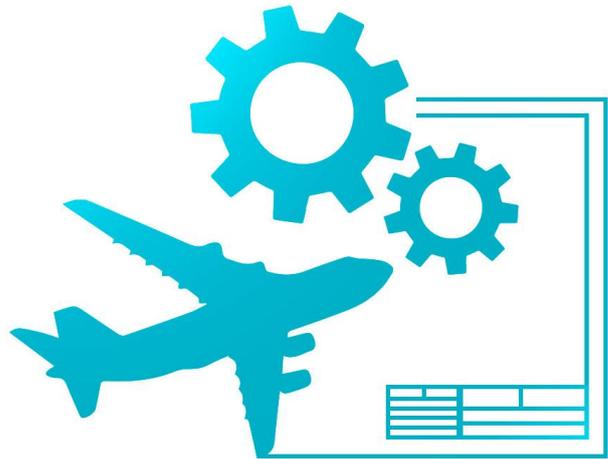
3. Transfer to the Technologies group specification
 - Export/import of the specification structure via DBF-format.
 - Creating group assemblies and individual option assembly units in the TechnologiCS nomenclature.
 - Automatically adding necessary section entries to directories of the TechnologiCS system.
4. Ordinate-angular and angular chain dimensions.
 - Selecting a sequence of commands: Dimension → Angular → Ordinate allows to set an ordinate-angular dimension.

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- The start and end of an ordinate-angular dimension are bound to the drawing geometry; the dimensions are re-built upon changing the latter.
 - Angular chain dimension functions have been improved.
The start and end of angular chain dimensions are bound to the drawing geometry; the dimensions are re-built upon changing the latter.
5. Other enhancements.
- Fixed: the bug that occurred when creating a DWT template with modified Project Specification Manager therein.
 - Fixed: similarity plotting bug that occurred when working in Windows 10.
 - Added: stoppers
The drawing lettering templates have been enhanced so that the full text fits in the relevant cell, taking into account its 15° slope.

About Nanosoft

Nanosoft is a community of CAD professionals. Our team consists of people who have been working in the CAD software industry for years. Many of them have been in the CAD business since the late 1980s. They have been involved in the development of innovative software and have taken part in many successful national and international projects.

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