

New Features and Improvements in VeraCAD 4.0.3.30

It's been more than half a year since the last version of VeraCAD 4.0 was released. We are very pleased to deliver version 4.0.3.30 to you, shortly before the end of 2019. Some of the new features and improvements we present here.

Module	
Mass distribution	Auto function VeraCAD can now automatically decide what the main direction and forging direction are. The original manual setting of both directions is still available.
	Speed A new calculation algorithm is much more efficient. This was achieved not only through parallelization, but also through other data structures. You can also read the article "Mass distribution now with new algorithms" in the FAQ section of our homepage. Typical calculation times for a large geometry are now: Normal curve without spine line < 2 s. With spine line and perpendicular flow line < 10 s With spine line and shortest flow line < 20 s
	Number of cuts This setting has been omitted. The number of cross-sections used to calculate a mass distribution curve is set to 2048. This was achieved by the more efficient calculation algorithm, in which the number of cross-sections hardly plays a role for time consumption.
	Warm / cold The representation of curves in warm or cold state is clearer.
	Spine line Editing and presentation of the spine line have been revised. The fillet radius at the polygon corners is activated now. Spine line import from a CAD file (IGES, VDA, EDX) has been reactivated.
2D-Drawing	Sheet division VeraCAD automatically creates the views and cross-sections of the rolling segments. If the cross-sections do not fit on a sheet, older versions of VeraCAD have created follow-up sheets. The new version generates a maximum of one drawing sheet per pass. In the event of a lack of space, the scale is automatically reduced. The user receives a message in the output window about the actual scale used. This can also be set by the user himself, if the automatic scale appears unsuitable. The cross-sections and views now are automatically placed and aligned, for what VeraCAD uses equal scaling and common centerlines.
	Predefined drawing layouts So far, there were only a few layouts for the tool segments and the calibration plan. The new predefined layouts are. <ul style="list-style-type: none"> • Tool segment (warm)

	<ul style="list-style-type: none"> • Tool segment + Front view (warm) • Tool segment + Front view + Roller piece (warm) • Finished part (cold) • Finished part (warm) • Roller products (cold) • Roller products (warm) • Calibration plan (cold) • Calibration plan (warm) <p>IGES - Export The technical drawing can be exported in the IGES format with the same sheet layout as described above. The assignment of colors to line styles is reactivated (Global Settings > 2D Export Settings).</p> <p>Parallel dimensioning The parallel dimensioning style was added and is used to dimension the diagonal for the square cross section.</p>
<p>Graphic</p>	<p>Resolution Modern screens / projectors / notebooks / printers / image files, etc. are characterized by different formats and sometimes very high resolutions. This places high demands on the graphical output of 2D drawings and 3D geometries. It is also important that font sizes line weights and line styles also adapt to the resolution. We have invested a lot of work in this field, so the graphical output of all VeraCAD views (2D, 3D, tables) on all output devices is true to scale and with clear visualisation.</p> <p>PDF documents VeraCAD can save the content as a PDF document in all views (windows). The color setup is taken from the printer settings. The two color setups: Display + Color Printer / Printer + Monochrome perform an important function. You usually want to have a dark background on the screen, while on paper / PDF document, it should be white. For output in the PDF document, the line color usually is black and possibly a different font is desired. Using Windows 10, the Microsoft PDF printer already is installed. Here, VeraCAD generates PDF documents up to A3. For larger formats, a special PDF printer must be installed. There are numerous, free tools for this.</p> <p>Copy image / Save image This function provides the possibility to copy the content of a VeraCAD view to the clipboard without copying the remaining areas (menus, tool bars, input parameters) as a graphic. Alternatively, it is saved directly in a file of type BMP, JPG, PNG or GIF. Here, the resolution must not be equal to the screen resolution. This can also be selected larger in the Image Settings area (e.g. Full HD 1920x1080). In this way, you can easily create documentation about the project or a PowerPoint presentation.</p>

	<p>Cross Axis The cross axis in the 3D views has been provided with letters for the coordinate direction.</p> <p>GDIplus In the 2D part of VeraCAD, the entire graphics has been converted from GDI to GDIplus. This results in more precise fonts, different line weights and line styles.</p>
<p>Language</p>	<p>Translation The VeraCAD user interface now allows to change the language. (menu, input parameters, messages, output-window, graphic). After changing the language, VeraCAD must be restarted. Currently implemented languages are:</p> <ul style="list-style-type: none"> • German • English <p>Others will follow.</p>
<p>Installation</p>	<p>Setup The new setup program is a Windows Installer package (VeraCAD_Setup.msi). It is aimed for users who are installing the full version VeraCAD on a computer for the first time. Administrator privileges are required for execution. The package installs:</p> <ul style="list-style-type: none"> • VeraCAD Main Program • VeraCAD Manual • CodeMeter Device Driver • Microsoft Libraries (Redistributables) <ul style="list-style-type: none"> ○ VC142_CRT_x64 ○ VC142_MFC_x64 ○ VC142_OpenMP_x64 • License to serial number <p>Without installer We still provide VeraCAD without an installer. No administrator privileges are required for this installation. The VeraCADxx.zip file contains only VeraCAD.exe and can be copied to any folder. Prerequisite for using this is, that the driver for CodeMeter is already installed, the license and the above libraries are already on the computer. This type of installation is primarily suitable for updates. We have decided not to make automatic updates or forced updates. However, if you have an Internet connection, you will be notified if there is a new version.</p>

What's new – VeraCAD 4.0.3



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