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It's hard to believe we've been looking at another release of SOLIDWORKS. It's been a full year since we published SOLIDWORKS CAM powered by CAMWorks. During the first year we spent a lot of time with customers seeing all the cool things they produce and gained some important feedback for future versions! Let's take a quick look at some of solidworks CAM's main features in 2019. High-speed machining – Volumill As production becomes more competitive around the world, it is important to make the most of all aspects of the manufacturing process. In 2018 SOLIDWORKS CAM Professional provided volumill tools to improve tool life and reduce turnover times on ground components. At SOLIDWORKS 2019 users will be able to leverage two new options in Volomile: rest processing chips and zig-zag toolpaths for constant cutting on long parts. These two additions will enable the use of HSM tool givers in additional machining strategies to reduce recycling times and improve machine throughput. Machine-specific rules (machining strategies) Due to the viability of CNC equipment today, most stores add equipment covering multiple disciplines. It is common to find facilities that have lasers, plasma, mills, and butts to meet the growing demand to be a one-stop shop for their customers. SOLIDWORKS CAM 2018 allowed users to capture rules based on feature geometry and material type. At SOLIDWORKS 2019, users will be able to assign feature geometry and material to a specific machine. This extended functionality will enable companies to reward their manufacturing process more accurately. Endurance-based tolerance-based machining at SOLIDWORKS CAM 2019 introduces some powerful new capabilities that dramatically reduce the time needed to create CNC programs for parts that have become closely resistant, and surface finishing requirements. Tolerance-based machining at SOLIDWORKS 2018 started with understanding tolerance on grinding components. Starting with SOLIDWORKS 2019, users will be able to extend this automation to components that have become scratches using SOLIDWORKS CAM Professional. The addition of feature detection planer will enable automatic detection of machining strategies for OD and ID engraving geometry. Toolpath adjustment for corners and bows When creating traditional tools such as pockets and bosses, you will need to adjust the feed rate as a tool entering the corner to maintain a required tolerance or finish. SOLIDWORKS 2018 required these changes to be applied during the post-process operation. With SOLIDWORKS 2019, users will have the ability to define these changes from the Feeds/Speed tab, allowing users to manually apply a change in the feed rate or switch to automatic calculation based on industry standards. When solidworks CAM is enabled, you apply the feed rate change for each sharp corner or arc in This enables specific changes in the feed-to-action rate to meet the endurance or endurance requirements specified in the design process. SOLIDWORKS CAM 2019 lets you streamline your manufacturing process by capturing standard workflows, reading MBD resistance, and extending the life of tools and equipment. For more information, see the SOLIDWORKS CAM product page or contact your local SOLIDWORKS CAM markets. Tags: CAM, SOLIDWORKS CAM 2019, tolerance-based machining, dental trails like • Show 0 likes0 comment • 9Where I can find good cam tutorials??? Visibility: CAM5520 ViewsYes Last 29 March 2018 15:06 So you did it... Imprinted your life savings (or it should be the woman's savings) into the CNC. You lowered the garage door, cut a hole in the roof, broke your back in five places and dropped \$1,000 into a curse jar, but you have your machine in its final resting place. You've run it around, claimed the handwritten G-code that you spent every Sunday night writing, double checking, and testing... Without crashing... A lot. And you quickly realized that conversational programming is as much fun as explaining to your wife why she owes to park on the street and why your child needs to get a job because their college fund is invested in a big box in the garage. And let's not forget, that means tying up the machine and being silenced in the cold shop. You want to get some alpha-nomer gibberish created without even a nosedive effort. Lucky for you, the kind people at SOLIDWORKS give you a CAM system with every seat of SOLIDWORKS on a subscription. So wake up SOLIDWORKS and check the SOLIDWORKS CAM add-in from the Tools menu&gt;-Add-ons. What's the difference between a regular and professional SOLIDWORKS CAM? So what are we looking at here? Well, SOLIDWORKS CAM Standard is a CAM 2.5 axis package that will create a toolpath on solidworks part files and generate CNC code (G-code) for CNC mill, water injection, plasma or router. What's that 2.5 axis you're talking about? I hear you ask. It just refers to how the movement of the machine cuts through the material. While most CNCs are at least 3 axis, meaning they can be controlled in the direction X, Y direction, and Z direction, the method used to cut parts typically involves only moving these 2 axes at once, usually XY. The third axis remains at a fixed depth, changing the depth only after X and Y ears have stopped moving. Having trouble imagining it? Think about how a 3D printer builds material but instead of moving upwards at the end of the layer, the tool moves downwards to cut deeper into the material. What about a spin for anesthesia, you ask? No problem, you just need to upgrade solidworks cam professional. If you do this, you'll also get the ability to program assemblies if you want to rotate multiple parts of Program (Think of a nest for a router/laser or multiple settings in one shot.) You can also enjoy the ability to operate Pivot Indexing Machines 4 and 5, as well as some orderly high-feed capabilities using Volumill. Let's start with SOLIDWORKS CAM Take a festive sip of your favorite beer, stretch these knuckles, as we're about to pose to you through getting started with SOLIDWORKS CAM. You managed to load it up, but not sure where to start? Don't worry, we got your back. If you want to take a look at your time, I recommend kicking things off by checking the tutorials. You can go to or browse to Help&gt; SOLIDWORKS CAM&gt;Tutorials in the following directory: C:\Program Files\SOLIDWORKS Corp\SOLIDWORKS CAM\lang\English\Manuals The files that accompany these tutorials are located in Next location: C:\Users\Public\Documents\SOLIDWORKS\SOLIDWORKS 2019\CAM Samples You can also check out our YouTube Channel Hawks Ridge Systems for a whole bunch of videos to lend you through different aspects. What SOLIDWORKS camera training options are available? Need to get skilled as soon as possible? Check out our range of CAM training offers, whether you are a beginner or a cam season pro! Prefer the comfort of your own home, we have online offers so you can sit in your pajamas if you so wish. If you prefer to talk face to face, you can come to us or we can come to you. I don't have a big budget but don't want to watch endless videos that just confuse you in the end? Check out our tutorial videos at a personal pace for guided curriculum, and walk you down the stairs. Watch Hawk Ridge Training Systems Options Where to Access Free Post Processors? Let's continue on the right track and not spend the whole day looking high and low for the tools to do the job. You're going to need a mail processor. Without it, your CAM system is about the same as using a glass hammer or rubber claws... Have you heard them before? Good, you'll fit. It's certainly probably the most overlooked part of any CAM system, but it's one of the most critical. After all, you weren't going to drop thousands on a racing engine and then run for some cheap and disgusting retreads on, right? Do yourself a favor, bend those knuckles and make your way to our site. Not all messages get even. Download free mail processor for SOLIDWORKS CAM/CAMWorks not seeing your PC registered? Lucky for you, there are a few other options. You think you're a bit of a software kid and you know your way around an IF statement or two? 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