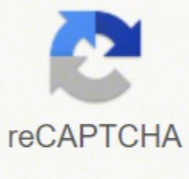




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# Alphacam training manual 2017 2018 free online

If you haven't already done so, start the "Advanced 5-axis Mill/Router." Page 5Alphacam 3D Surface Machiningz Y Xmachining operations with 3D machining, components can be cut in various ways to get the required results. Take the problem to locate the buttons on the screen. This displays all the folders within the metric tools library. With APS quick geometry, individual lines and arcs are not specified. The instrument paths are then applied to the geometric contours, from which the NC program is produced; Page 3Alphacam 3D MachiningAps Geometry is a unique way to create limited geometry. Select Help | Content. Introduction This alphacam tutorial is designed to give you a taste of how alphacam works, how interactive it is, how easy it is to learn and how easy it is to use. We assume that you are familiar with the concepts involved in CNC programming and have a reasonable understanding of your computer and the Windows operating system. If there are several ways to run the same command or option, these are also in italics and can be ignored the first time you work through the tutorial. Your screen will be similar to the one at the bottom. Page 1 ALPHACAM SUPERFICIES MENUBUTTONONE MACHININGPULL MENUBUTTONONE OF THE MENU PROPERTIES AT THE AREA OF THE GRAPH. Some parts require all surfaces to be worked together, as in this example. Type of cutting tool and material. .... 10 Operation 2

..... 15 Rough machine surface ..... 15 Operation 3 ..... 21 of the finishing machine ..... 21alphacam 3D Machining Conventions when using the Tutorial1. Tutorial1. you have finished the tutorial, please take time to have a look at it. 2. The time taken to produce your work will depend largely on the specification of the system on which you are running AlphaCAM. The coolant delivery. The part accuracy required (tolerance achievable). Select File | Open.The Open dialog box is displayed.Click Here to Change the Current Drive and Directory.Click here to select the correct directoryClick [ on Open to change to the selected directory. Conventional CAD style geometry creation, whereby individual geometric features are created and then trimmed in order to create geometric contours. End cutting roughing toolThe Z Contour roughing operation is used to remove the bulk of the material quickly. indicates a sub part of command for you to actionThe HELP file is very comprehensive. Method of work holding. Notes and comments are in Italics to separate them from the main text. The post processor determines the format of the output code. Click [ on K and the drawing is displayed. The cutting time (cost of machining compared with cost of other finishing processes). A warning box is displayed, as some layers have been turned off to avoid confusion. Operation 2 Rough Machine Surface Flat 10mm 2F EC SCB. Each change in direction is called a Turn. The symbol indicates a new command for you to action. AlphaCAMCAD/CAM system for Windows 3D MACHINING TUTORIALTable Of Contents.Conventions When Using The Tutorial ..... 1 Introduction ..... 1 Creating the Part Geometry ..... 3 Open the Demo Drawing. The machine tool rigidity and repeatable accuracy. Page 6Alphacam 3D Surface MachiningFor the demonstration example, the cutting is produced in 3 operations, machining all surfaces. The symbol 3. For example, 3D toolpaths and solid views created much faster on a computer running Windows NT than on a similar system running Windows 95/98.Page 7AlphaCAM 3D Surface MachiningConfiguration OptionsSelect FILE | Select Post AlphaCAM displays a dialog box showing the available post processors. Below is a list of examples of elements that affect the processing method The nature of the component to be cut. To display the command executed by a button, place the screen pointer over the button for a couple of seconds and will Page 2AlphaCAM 3D Surface MachiningCreating the Part GeometryThis drawing " the part you will be working on in this tutorial. Component material (free cut, brittle, hard work). APS Fast Geometry creates a limited geometric profile by trimming, mixing, and filleting automatically when turning details are entered. Operation 3 Finish Floor Machine Surface 5mm 2F EC SCB. Ball End Finishing Tool.The finishing operation is used to produce the component at the required finish and size.Machining times and 3D machining equipment and computer-generated solid-view displays require large amounts of work memory and disk space. At the end of the tutorial, you'll have created the NC program for the drawing.AlphaCAM provides various ways to create part geometry. You can enable/disable button bars with the Configure option in the File drop-down menu or with the Button Bar option in each drop-down menu.Graphical areaCommand Prompt Command Line Help / Status LineDuring this tutorial, we'll show you where to find commands in the drop-down menus. For example, to sort the tool library by diameter and type, click [ on Click [ on 3D Demo Tutorial Geometry.amd to select the drawing.If Drawing is not in the system, it can be downloaded from the website training page. Select a suitable material and click [on K Select Machine | Select Tool Alphacam displays the Select Tool dialog box, where all the tools currently defined in the system are listed. For some the the machining will require 2D and 3D strategies to be applied prior to the 3D machining toolpaths. The surface finish required. Select the post processor for your machine. This tutorial can be used with both Standard and Advanced AlphaCAM, Mill and Router, modules. However, CAD-style geometry creation using Line, Arc and Circle commands is sometimes appropriate for simple shapes, and all the conventional CAD commands are included, plus Special Geometries, which automatically produce standard geometric shapes.Page 4Alphacam 3D Surface MachiningOpen the Demo Drawing.For this demonstration tutorial it is not a requirement to create the geometric surfaces. The surface finish achievable. It was drawn, dimensioned and printed using AlphaCAM. If not, you should look at HELP | Contents | Screen Layout. .... 5 Machining Operations..... 6 Machining Times and Equipment..... 7 Set-Up Options ..... 8 Operation 1 ..... 10 Z Contour Roughing. Open the Metric Tool folder by clicking on the + symbol next to the folder. AlphaCAM systems are available for all machining disciplines. If there is a button for the command, this will also be shown. The tutorial describes the construction and machining of the geometry for the following drawing. Instead, you say how the tool should move from one element to the next. Note: selecting the title box of each column modifies the tool library order. The tooling and number of cuts will obviously depend on the nature of the material being cut, its usage and any work holding. This will take you into the graphical portion of the system. The function of tutorial is to show how different cutting strategies are applied to 3D surfaces. These have already been created in the sample drawing provided with the system. You can speed up your work by avoiding having to pull down menus and side menus to click on commands, when one click on a button will suffice. The version of Windows you are using will also have an effect. Feeds and speeds is determined automatically based on the material and tools used. Select MACHINE | Select Material AlphaCAM displays the dialog box with all the materials currently specified in the material library. AlphaCAM has been developed as a true 32-bit Windows 95 or NT application, so if you use other Windows programs you will be familiar with features such as floating button bars, tabbed dialog boxes, etc. Operation 1 Z Contour Roughing Flat 20mm 2F EC SCB. Ball End roughing toolThe rough machine surface operation is used to remove the excess material left by the Z contour roughing and leave a uniform surface for the finishing operation. www.lcom.comSelect the demo drawing hereClick [ on Open to load the drawing into memory. Each one is specifically designed for the machine type, but the look and feel of all the systems is standard. AlphaCAM displays a warning if values entered exceed the maximums set in the post processor. This method is very powerful, because it allows you to answer Unknown to questions about poorly-specified co-ordinates and once AlphaCAM has enough information it will back-calculate to solve the unknowns. This can turn some designs into geometric contours much faster than with any conventional CAD system. Others will require the individual surfaces to be machined separately, separately.

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