
IMachining 2.0.12 For NX 8.5-12.0 X64 UPDATED

the imachining technology wizard applies advanced cutting conditions techniques to calculate optimum cutting conditions and optimum tool paths for cnc machines. this has the potential to drastically increase the efficiency of machining, especially when machining complex-shaped parts where a single cutting parameter is a very small portion of the overall operation. the imachining technology wizard is comprised of advanced algorithms, compiled into a database of cutting parameters and percentages of cutting width, feeds, speeds and depth of cut based on common parts being machined. upon a click, the technology wizard can provide you with the optimum cutting conditions for rough cutting, step up cutting, cut depth or width, step width, for any given material, machining style and tool. solidcam offers the imachining technology wizard to manually create a toolpath based on your existing programs, cutting conditions and percentage of cutwidth, feeds, stepover, stepdown and speeds. for smaller parts, automated parameter optimization is provided. you can even customize imachining to produce the toolpath. ultimately, it will optimize the operation to produce the optimum cuts for your tool and material combination. simply select the 'optimize routes for part' option under the 'machine configurations'. then the wizard will automatically create a toolpath and provide the cutting conditions necessary to optimize the toolpath. the first cut is always performed manually and the software will automatically calculate the rough and semi-finish, thereby saving time. a cnc machine with the solidcam imachining technology is recommended to complete this operation in one program. first, select the 'optimize routes for part' option under the 'machine configurations'. then, the wizard will automatically create the best step-up cuts on the material. the process can be found in the 'optimize routes for part' option under the 'machine configurations'.



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to get the most from this cam technology, imachining 3d should be used for roughing and semi-finishing. if roughing is all that is needed, imachining 2d is the tool path choice for the job. in both cases, imachining 3d is capable of producing high quality surfaces and finishes. imachining 2d is ideal for simple roughing/finishing, for example, a roughing and fast semi-finishing on simple faces like a rhombic wedge, spherical end or a cylindrical in-feed bore. using imachining technology requires a cam system capable of analysing and cutting complex geometries. although the advanced algorithms used in imachining 3d are capable of such, imachining 3d focuses on surfaces that are not complex, to enhance the usability of imachining 2d, which is the cam-module that most users need. imachining is a patented multipurpose machining technology which is being developed for nc programming of 2d and 3d machining operations. it is intended to ease the work of cam programmers and to provide tools capable of generating efficient, 100% automated machining programs for all non-load and very small cutter applications. the algorithms which imachining derives are then used to generate cut paths by conversion of surface into a series of paths which are taken as a final program for machining. the imachining technology wizard is capable of analyzing all non-load and very small cutter applications and can convert various types of surfaces into path sets and parts of path sets. on top of that, imachining technology wizard is capable of dynamically adjusting tool position and feed. this offers great help to the user in all types of job: from arc to non-arc machining and combining cuts with thick chips and thin chips. in addition, imachining technology wizard is capable of making no-load and very small cutter applications, by a series of fixed cutter paths and path sets. this feature helps the user to specify only in a single tool path the variable features that need to be adjusted, reducing the programming time and the chance to make errors.

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