

: smirt shapemilling

standardize your 3 axes milling process by achieving the same end result every time

SMIRT ShapeMilling is a software product used to create automatic 3 axes and 3+2 axes milling tool paths for small or large components or castings. The unique “Milling Method” strategy simplifies the overall process by automatically selecting 3d surfaces to machine, filling holes, extracting tools from the database, and creating boundary curves, along with creating the initial casting stock or initial solid block.

Built upon the SMIRT DieShop platform

SMIRT ShapeMilling takes full advantage of all the features within SMIRT DieShop. The user maintains the ability to extract data and information using a simple and intuitive user interface. This allows the user to easily analyze and extract any additional information necessary from the part data easily and effortlessly. Whether it's a dimension, ordinate, or section through the part, you will obtain this information within seconds. By using the same platform and user interface ensures that no data is lost when communicating between departments.

Eliminate additional setups

Machine the 3D surfaces while the part is already on the machine for linear milling and hole drilling with one software interface.

As simple as 3 basic steps

Load the part, Set the axis, Run the “Milling Method”.

Complete CAM solution

Automatic machining of small and large components and 3D surfaces. Minimal user interaction is required to achieve optimal results.

Profile toolpaths

Create 3D profile toolpaths from the SMIRT data or import your own curves. Eliminate the need for adjusting the hand wheel on the machine for the Z axis.

No preparation

No preparation surface modeling work is needed.

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profile toolpaths

no preparation surface modeling

define initial stock

import scan data

dynamic stock model

automatic hole filling

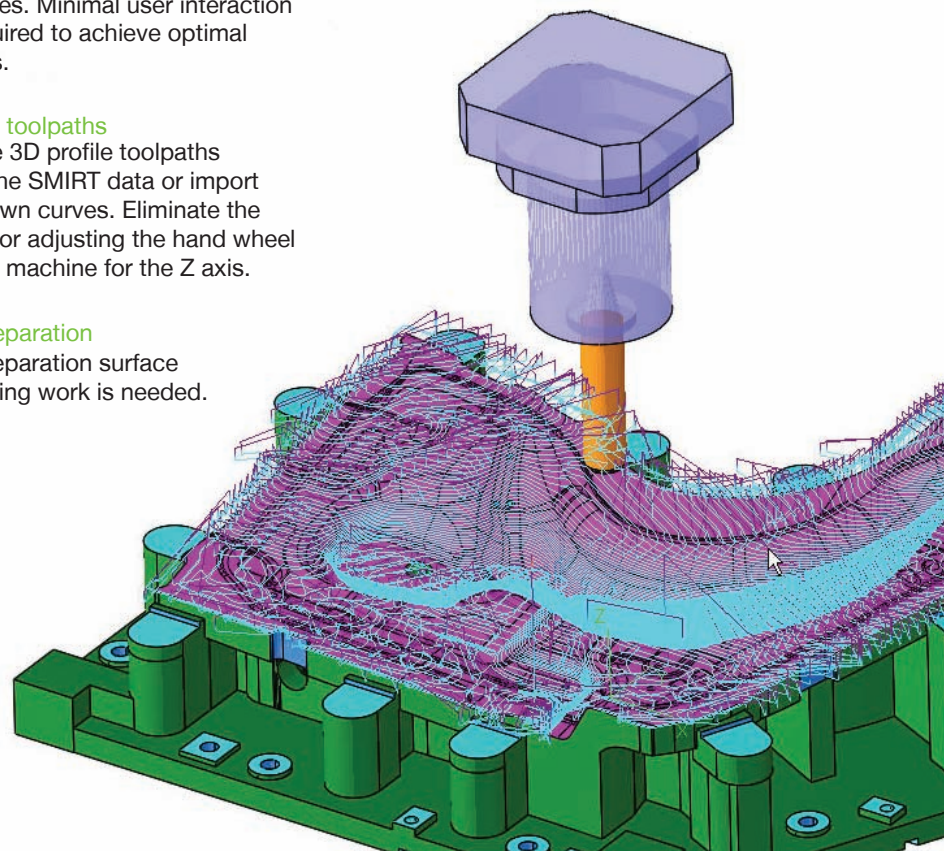
“milling method” library

toolpath boundaries

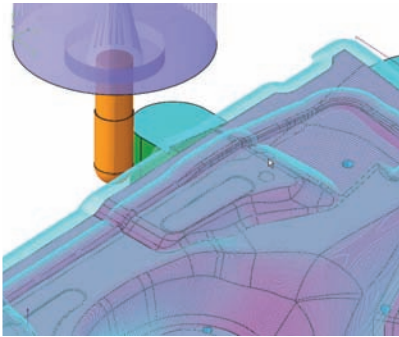
intelligent transitions

standardization

engineering changes made easy



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Define initial stock

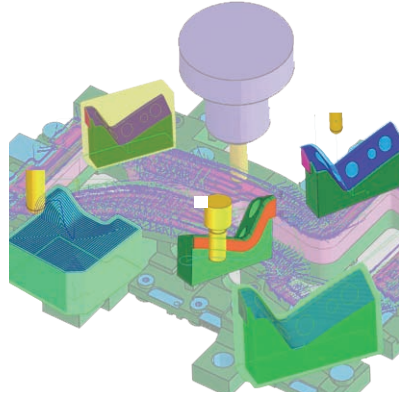
Multiple initial stock definitions are available. Automatic creation of the initial cast stock within the “Milling Method”. Change to a solid block for your initial stock easily and efficiently.

Import scan data

Laser scanned and / or white light scanned STL data can be imported and used as your initial stock.

Dynamic stock model

After the creation of every toolpath, a dynamic stock model is created and used as the input stock for the following toolpath. This allows for optimum and efficient toolpaths because the material to remove is continuously tracked.



Automatic hole filling

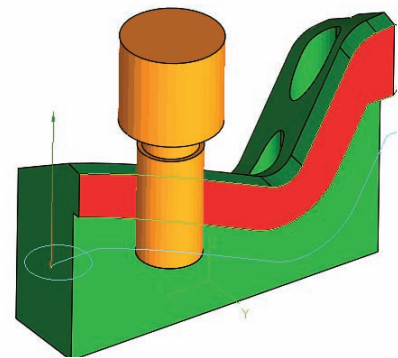
All holes are filled automatically. Screw holes, dowel holes, small gaps in surfaces. No need to spend time in the design room filling holes. Filling the holes allows for smooth, clean, efficient toolpaths.

“Milling Method” library

User created and customizable “milling method” library eliminates tedious input and time to fill in parameters and fields that are standardized. The “Milling Method” generates toolpaths that are specific to the die stamping industry.

Toolpath boundaries

No need to create toolpath boundaries. Each boundary is created with respect to the tool that is loaded from the tool library.



Intelligent transitions

Movement from one cut plane to another cut plane is intelligently considered. If possible the tool will step outside the part, otherwise the tool will do a helical ramp, if this isn't possible, then the tool will ramp along the geometry.

Standardization

Perform consistent cut techniques across users. Your best in practice “milling methods” are defined by the company. Maintain and control the feedrates. Get the same result regardless of the user skill level.

Engineering changes made easy

Import the latest product data directly into the SMIRT model to be assured of cutting to the latest change.

The SMIRT way to get the job done

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