CAD-feature-based tool-path definition (CAD2Path)

Process & tool-paths · https://convergent-it.com/it/tutorial/process-tool-paths-it/cad-feature-based-tool-path-definition-cad2path-it/

Deburring, line-welding, sealing, (spme) gluing are processes wher the tool follows a feature, such as a weld - which is defined in the CAD data - and thus it is most naturally and ergonomic to define the path to follow a CAD feature.

For this software functionality, a CAD description which possesses CAD features (edges etc.) is required. That is e.g. STEP or IGES. STL and other formats do not include CAD-features.

The following videos show use-cases how to define such a path for the case of welding

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The following video shows more details for a more simple case:

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