RealPATH

Automated Path Generation

RealPATH is an automation solution for generating robot programs from 3D scan data. It is designed to follow component surface contours and used for a variety of applications.

A 3D scan is taken which produces a real-world topology of a workpiece. A path profile is subsequently generated for the workpiece which is then refined for singularity, out of reach and collision issues.

This automatic generation of robot paths eliminates the need for CAD/CAM and user interaction.

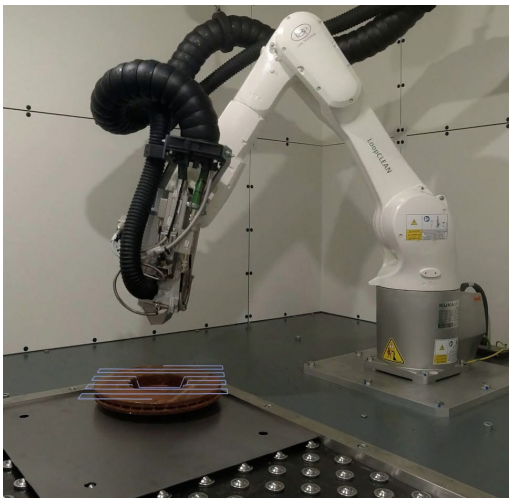
Features	
	» Automatic path planning from point cloud data
	» Automation interface
	» Reach analysis
	» Singularity avoidance
	» Collision avoidance
	» Robot program generation
	» Static scanner calibration
	» Hand-eye calibration
	» HMI features
	- Path visualisation
	- Cleaning profile selection
	- Application masking

Applications

- Laser Cleaning
- Painting
- Sanding and finishing
- Inspection

Benefits

- Eliminates need for CAD/CAM
- Reverse engineering no longer required
- No robot programming required
- Easy integration
- Reduces time and cost significantly



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