Ready for the future, caring for the customer



GENTRAY 3® NDT Inspection Path Programming

Tecnatom www.tecnatom-ndt.com

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INSPECTION SCENERY DEFINITION



COMPONENT DEFINITION

- Import component CAD files in exchange formats
 STEP and IGES
- Reconstruction of surfaces from point clouds



REGIONS DEFINITION

- Definition of custom inspection regions in which trajectory will be designed.
- Trajectories belonging to different regions can be included in the same trajectory program.



TRAJECTORY DESING AND PROGRAM GENERATION

- Design trajectories in the 3D viewer by mean of aided strategies
- Tune-up designed trajectories with a full catalogue of edition and design tools
- Customizable reorientation of inspection tool
- Validate trajectories by simulation and coverage estimation tools
- Double inspection tool positioning in 3D according front and rear surfaces
- Trajectory sampling according to system needs and surface complexity
- Generate machine language trajectory program by processing the sampled trajectory
- Support for kinematic calculations of mechanical equipment



INSPECTION TOOL MODELING

- Import CAD files defining the shape of inspection tool
- Model the probes at the inspection tool
- Exchange tool models between Gentray 3 projects







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GT3 SUMMARY

- Load or reconstruct the component surface
- Design trajectories
- Analize coverage and simulate
- Generate trajectory program and execute





