What's new in EVOLVE SmartProfile 6.0?



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The sixth generation of popular SmartProfile®, the heart of the EVOLVE Suite, offers many new and powerful features, expanding EVOLVE's mission of providing reliable part tolerancing for all users in today's manufacturing enterprises.

New generic file format for the whole EVOLVE Suite:

.EP (Evolve Project)

File name:		-
Save as type:	EVOLVE Project (*.ep)	

Free ResultViewer can open all .EP files regardless of the source product.

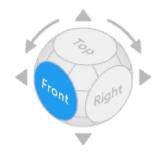




What's new in EVOLVE SmartProfile 6.0?



Quick and easy view manipulation in 3D (NaviCube)



- Enhanced 'Dark UI Theme' for all products
- Improved language support
- Advanced installer and licensing for all products
- > New and updated product videos: https://vimeo.com/kotem/

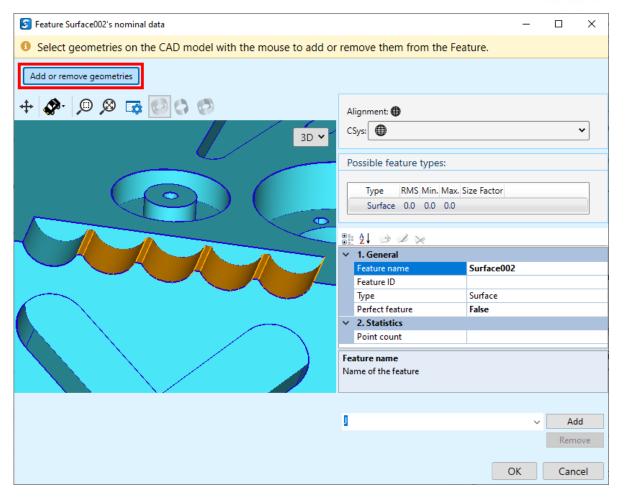




Feature manipulation



The existing features can be edited by adding or removing CAD geometries.





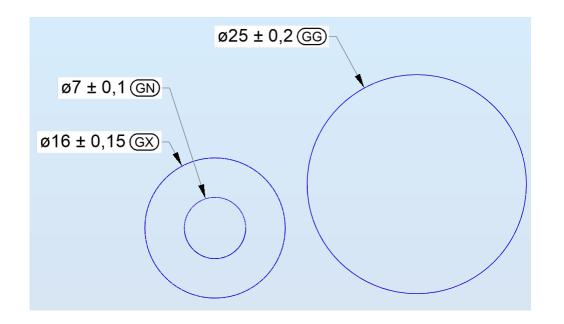


ISO 1101 improvements



Supporting ISO association symbols for size tolerances:

- 66 Least-squares association criterion
- (GX) Maximum inscribed association criterion
- (GN) Minimum circumscribed association criterion







General tolerancing



Ability to easily define general tolerances over the non-toleranced CAD geometries.

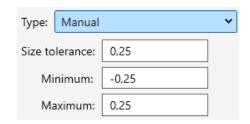


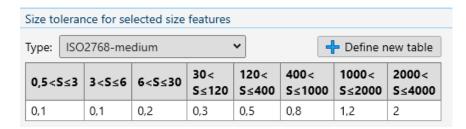
General size tolerance:

- Common size tolerance for every non-toleranced size feature regardless of nominal size
- > Applying a tolerance table:
 - > Tolerance value depends on the nominal size
 - Using default tables of ISO 2768

General GD&T/GPS tolerance:

General profile tolerance can be defined to all of the non-toleranced geometries











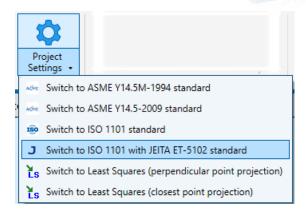
JEITA General tolerance



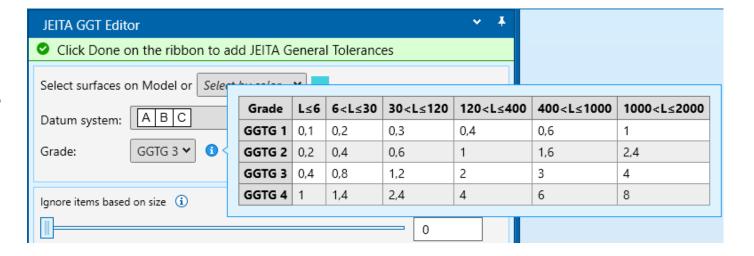


ISO 1101 with JEITA ET-5102 standard is available in v6.0.

JEITA (Japan Electronics and Information Technology Industries Association) ET-5102 is a general tolerancing standard.



It allows to define general tolerances over the non-toleranced CAD geometries based on the selected grade.







New Constructed features



Version 6 supports the construction of

> Midplane of slots and widths



> Axis Line of slots

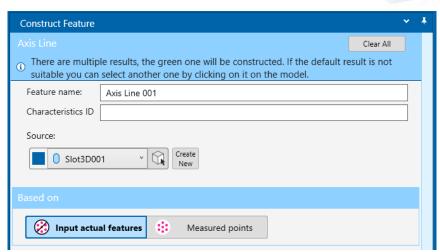


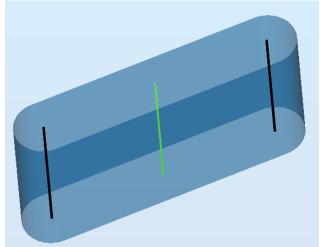
- > Tangent cylinder to
 - two cylinders
 - a cylinder and a plane
 - two planes



> Tangent sphere to cones







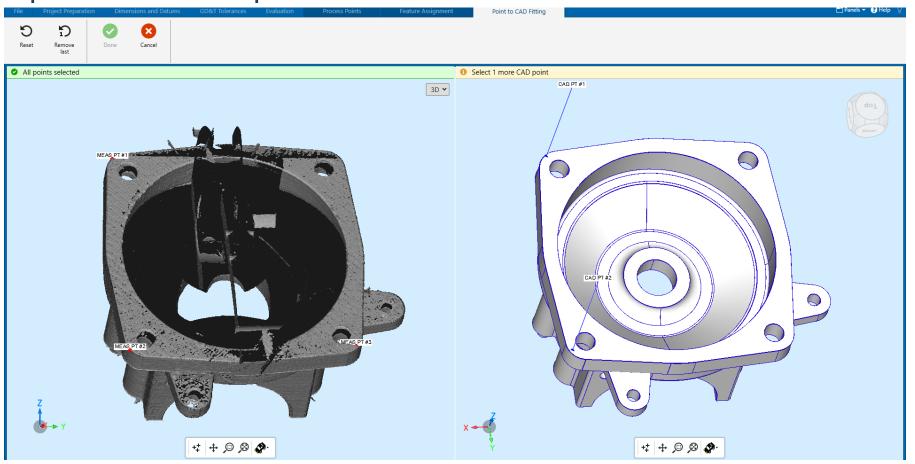




Point to CAD fitting



Separate views for points and CAD makes the selection easier



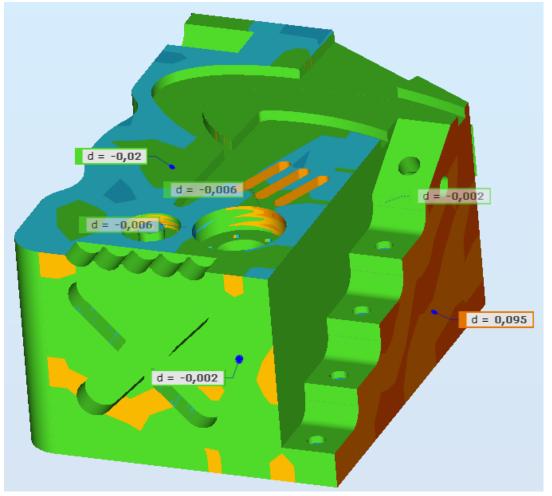




Deviation label visualization



Deviation labels belonging to hidden points are transparent in the graphics view.







Further enhancements



- > Faster loading of the project files (performance improvement)
- ➤ Enhanced QIF v3.0 PMI import and export
- CMM points with tip radius are supported by all point filters
- Global alignment deviation values can be exported into Text report
- Updated Evolve Capture utility for scanning with new ShapeGrabber sensors



