

CREO PARAMETRIC 4.0

SNEAK PEEK

WHAT'S NEW IN MBD

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9 June, 2016



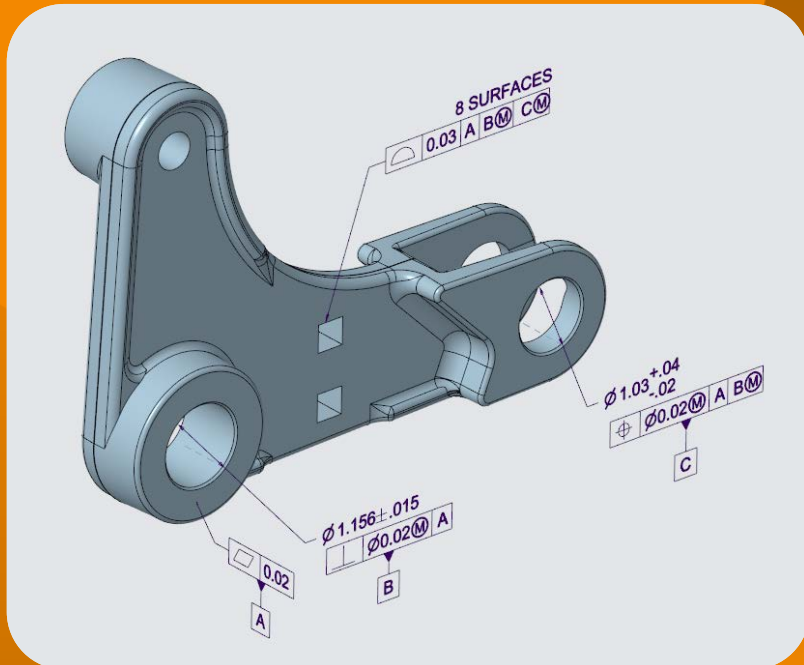
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GTOL ENHANCEMENTS

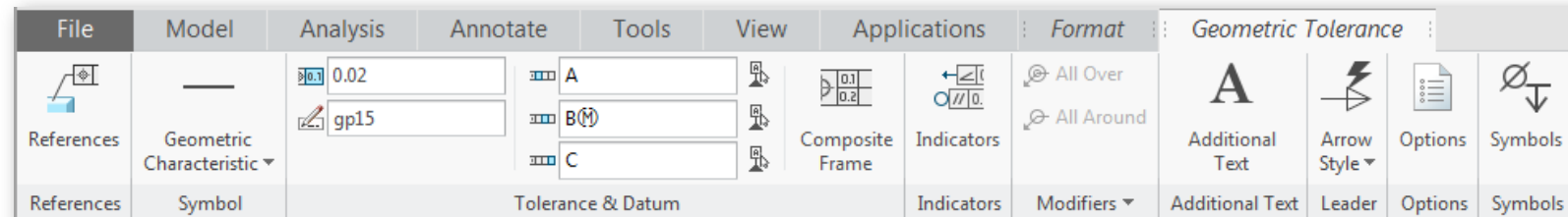
QUICKLY CREATE STANDARDS-COMPLIANT GEOMETRIC TOLERANCES

CREATION AND EDITING SEMANTIC REFERENCES FLEXIBLE VALUE AND DATUM DATUM REFERENCE FRAME



CREO 4.0 GEOMETRIC TOLERANCE ENHANCEMENTS

- Creation and editing:
 - Placement workflow – immediate preview
 - Contextual ribbon for editing properties
 - New ISO Indicators support
 - Direction feature, Collection plane, Intersection plane, Orientation plane
- Text inputs for tolerance value and datum compartments
 - Flexible typing of values and modifiers
 - Updated text symbol palette
 - Syntax checking
- Semantic references
 - References collector
- Integrated Datum Reference Frame (DRF)
 - Automatically created for GTOLs
 - User can place a coordinate system to represent the DRF



QUICKLY CREATE STANDARDS-COMPLIANT GEOMETRIC TOLERANCES

CREATION AND EDITING
SEMANTIC REFERENCES
FLEXIBLE VALUE AND DATUM
DATUM REFERENCE FRAME

Benefits

- Save time by quickly creating and editing Geometric Tolerances
- Conform to latest GD&T standards

INTUITIVE CREATION AND EDITING WORKFLOWS



Immediate preview of GTOL on creation

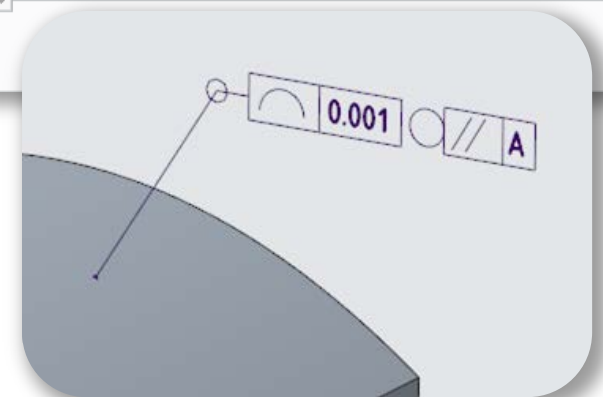
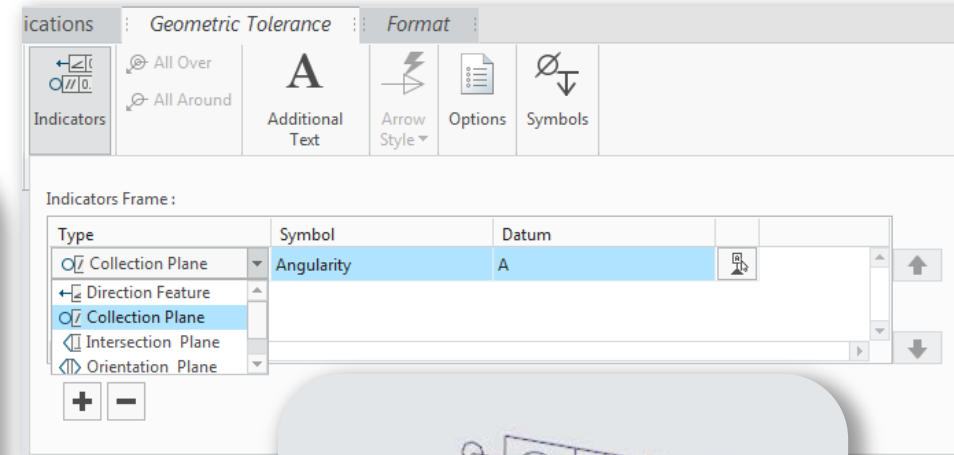
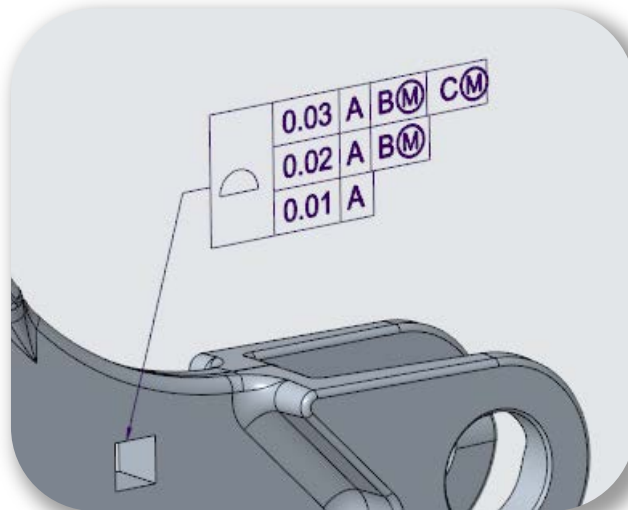
- Drag to select leader reference and placement location

Contextual ribbon tab for editing properties of the GTOL

- Opens and closes on selection

Standards-based options

- Expanded composite tolerance support
- ISO Indicators support



QUICKLY CREATE STANDARDS-COMPLIANT GEOMETRIC TOLERANCES

CREATION AND EDITING SEMANTIC REFERENCES FLEXIBLE VALUE AND DATUM DATUM REFERENCE FRAME

Benefits

- Facilitate machine-readable GD&T for downstream use
- Provide proper query-response behavior
- Conform to GD&T standards

SUPPORT FOR FULLY SEMANTIC REFERENCES

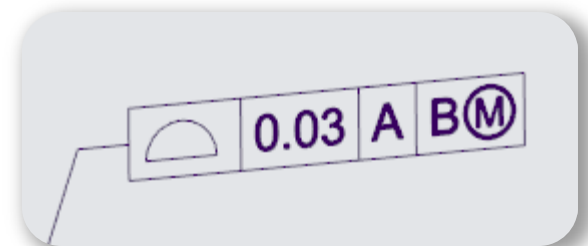
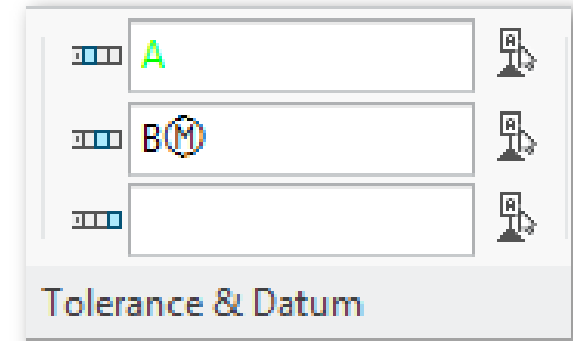
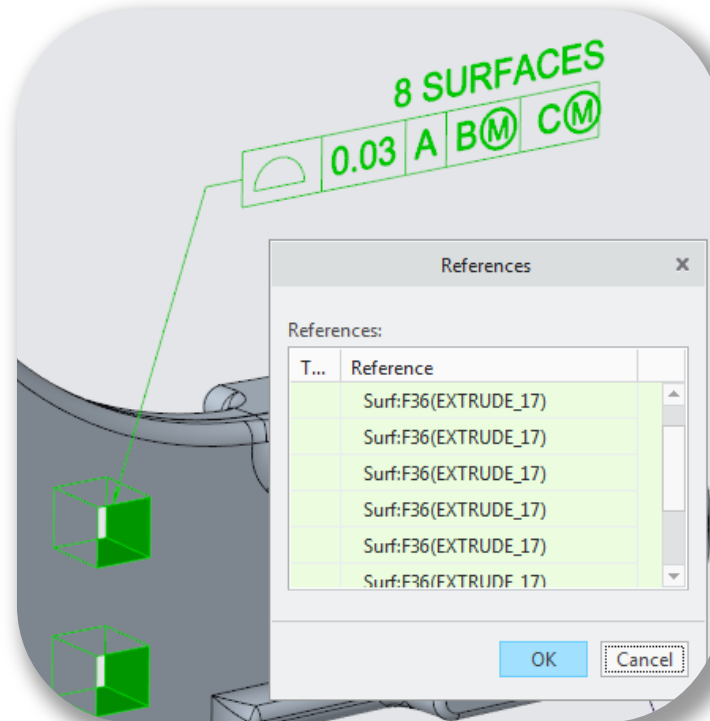


Semantic references to model geometry

- References collector for selecting surfaces

Flexible datum feature reference

- Non-semantic – text only
- Semantic – reference to existing datum feature symbol



QUICKLY CREATE STANDARDS-COMPLIANT GEOMETRIC TOLERANCES

CREATION AND EDITING
SEMANTIC REFERENCES
FLEXIBLE VALUE AND DATUM
DATUM REFERENCE FRAME

Benefits

- Save time by quickly specifying tolerance value and datum references
- Conform to latest GD&T standards

FLEXIBLE TOLERANCE VALUE AND DATUM SPECIFICATION



Text input of values and modifiers

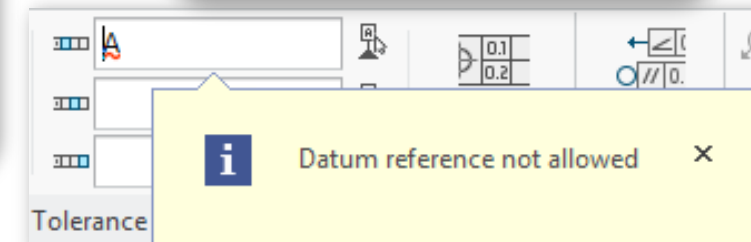
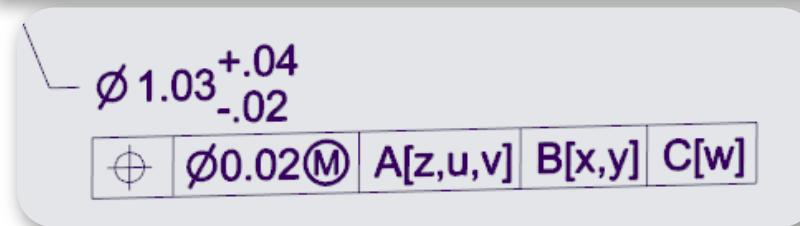
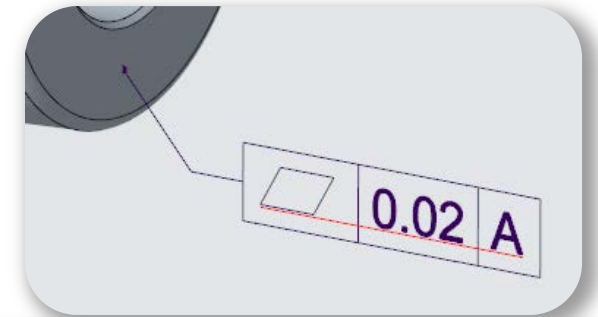
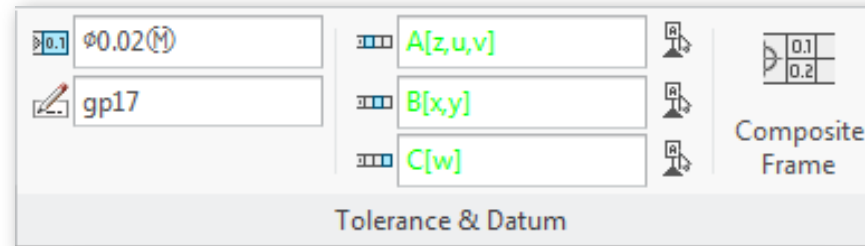
- Streamlined UI and flexibility to specify any desired tolerance and modifiers

Updated text symbol palette

- Comprehensive text symbols in ASME and ISO font

Syntax checking identifies non-standard content

- Highlighted in the UI and graphics window



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Benefits

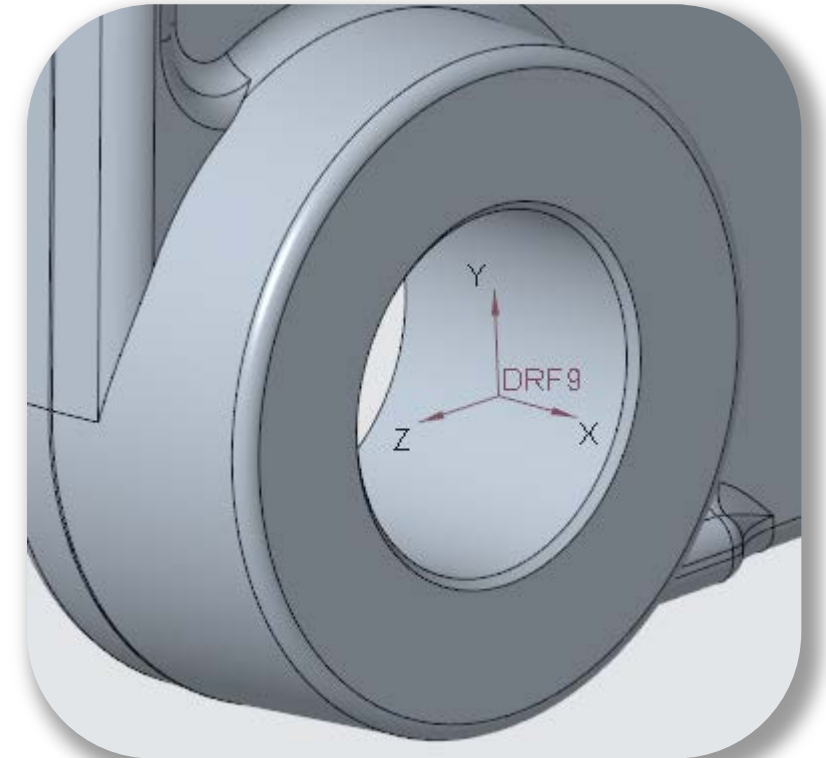
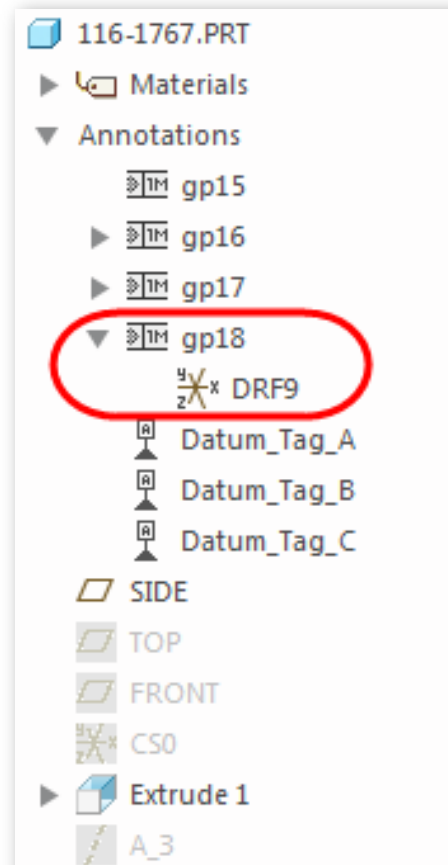
- Facilitate machine-readable GD&T for downstream use
- Provide proper query-response behavior
- Conform to GD&T standards

INTEGRATED DATUM REFERENCE FRAME OBJECT



Datum reference frame is automatically created for GTOL with datum references

User can place a coordinate system to represent the datum reference frame location





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