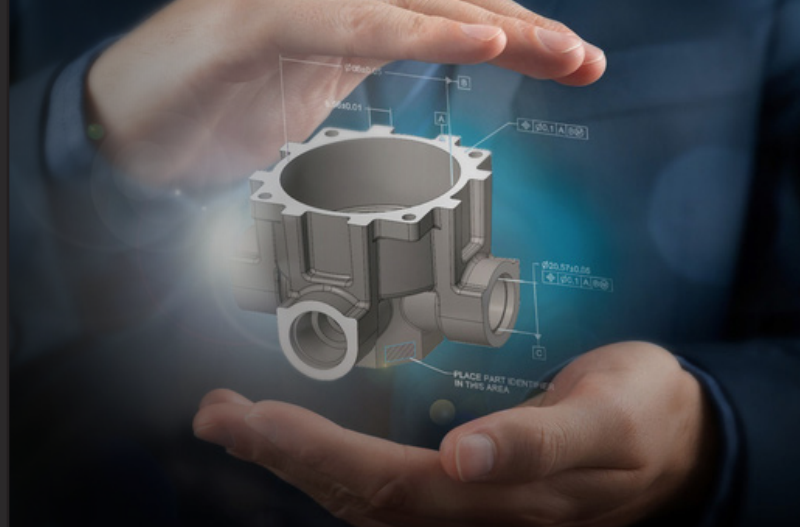


SIGMA MBD

A toolbox to facilitate your MBD journey—exclusively for Creo users



SIGMA MBD—Empowering your MBD (Model-Based Definition) Journey

Whether you're already an MBD expert or just starting out, SIGMAXIM's SIGMA MBD supports every stage of your journey.

Too often, teams wait until it's time to "go MBD" before thinking about how to get there—only to realize too late how much groundwork is needed. In order to have a successful MBD transformation, you need structured data, standardized processes, and alignment across tools and teams—prep work that needs to begin long before you add your first annotations.

That's where SIGMA MBD comes in.

Built exclusively for Creo Parametric, SIGMAXIM's powerful automation tools minimize the need for lengthy training and migration efforts. With its proven, systematic approach, SIGMA MBD helps organizations adopt MBD more smoothly, accelerate user adoption, and maximize downstream value.

Capabilities include:

MBD Checker

MBD Checker runs directly in PTC Creo to validate 3D models against over 300 predefined rules, ensuring compliance with MBD standards such as ASME and ISO. Checks cover GD&T/ GPS and tolerancing, PMI (notes, symbols, and dimensions), presentation and visibility, geometry semantics, and CAD modeling practices.

Automatically detect missing or incorrect annotations, PMI inconsistencies, and other issues – with real-time feedback for fast corrections. By reducing manual reviews and streamlining validation, MBD Checker improves model accuracy, efficiency, and reliability across your MBD workflows.

Update

- Standardize MBD infrastructure and prepare data for MBD
- Consistency – Ensure MBD definitions are always up to latest standards, globally
- Checks and changes
- Update current and legacy data in batch mode

Color Coding

- Colors clearly highlight PMI and facilitate reliable transfer to downstream functions and streamline the MBD process
- Flexible, rules-based approach set up to company standards

Annotate

- Add textual annotations and symbols seamlessly
- Create common annotations Library and place where desired
- Support international and multilingual environments
- Ensure company approved annotations are used and placed automatically, based on your Rules

2D PDF Export

- Export multiple Combined State views into a custom 2D PDF
- Ability to define multiple configurations & styles
- Consumers of data not always ready for 3D deliverables (e.g., vendors / consumers of manufacturing info)
- Automatically creates it when needed

Combined State Management

- Primary means for structuring MBD content, similar to how drawing views organize 2D models.
- Organize custom MBD content (e.g., views, annotations, layers states) into a single, clean configuration
- View, apply & reuse States for consistent downstream use
- Automates this tedious task. Reuses existing info for MBD
- Improved workflow & overview of MBD combination states

2D to 3D

- Convert legacy 2D Drawing into 3D combined views
- Reuse existing data to create MBD combination states
- Easy way to convert existing drawings to 3D automatically

Accelerate Your MBD Journey —with SIGMAXIM



3D to Drawings

- Automatically convert 3D model definitions to 2D drawings
- Slowly transition to MBD while keeping 2D drawings as master record until ready to transition
- 'Speak both languages' while coming up to speed
- No increased workload while transitioning

Tracking & Marking

- Marking PMIs for first article inspection
- Track any additions, deletions, or revisions to all PMIs throughout development cycle
- Full traceability & clarity on all PMI revisions

Context & Attribute Management

- Create new models from templates
- Assign Context
- More specific automation and user support
 - Rules for updating
 - Color Rulesets
 - Annotation selection pool
 - Export templates
 - Parameter list
- Simplify workflow for new models and drawings

ABOUT SIGMAXIM

SIGMAXIM has been the leading global expert in Creo automation solutions for over 20 years. We partner with companies of all sizes to deliver low risk, efficient automation solutions for both standardization and product configuration initiatives.

CONTACT US

See MBD automation in action – request your personalized SIGMA MBD demo.

info@sigmaxim.com · www.sigmaxim.com
+1 617-981-6500 · +1 877-SIGMAXIM