

SOLIDWORKS Add-in

MECAD Optimization Pack

The MECAD Optimization Pack is a powerful SOLIDWORKS add-in developed by MECAD to improve engineering productivity and optimise common workflows, combining capabilities for Drawing Automation, Assembly Optimization, and Property Definition Export/Importer.

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Features

- › Automated drawing creation for parts & assemblies directly from SOLIDWORKS models
- › Sheet metal flat-pattern drawings with manufacturable views & annotations
- › Automatic detection of missing balloons in large assemblies
- › Custom BOM splitting rules based on company-specific requirements
- › Configurable logic to skip components based on company standards or predefined rules
- › Batch processing capability to generate multiple drawings in a single operation
- › Standardised drawing layouts to ensure consistency across projects

Drawing Automation Tool

Benefits

- Reduces the time required to create drawings
- Accurate sheet metal documentation for production
- Improved drawing accuracy in large assemblies
- Enforces company drawing standards automatically
- Reduces repetitive engineering work
- Helps engineering teams focus more on design

Drawing Automation
Tool

Invest in your company's growth
Talk to your consultant today!

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Assembly Optimization Tool

Features

- > Optimises large assemblies for improved performance
- > Reduces rebuild times
- > Improves assembly open times
- > Identifies components that impact performance
- > Streamlines assembly structure for better efficiency

Benefits

Better user experience when navigating large assemblies

Faster opening & rebuilding of assemblies

Reduced system resource usage

Improves performance when creating large models

Assembly Optimization Tool

Property Definition Export/Importer Tool

Features

- > Export SOLIDWORKS custom properties to Excel
- > Bulk edit properties using Excel
- > Import updated properties back into SOLIDWORKS files
- > Supports multiple files simultaneously
- > Simplifies property management across large projects

Benefits

Fast bulk editing of file properties

Eliminates repetitive manual property editing

Consistency across parts, assemblies & drawings

Simplifies integration with company data workflows

Property Definition Export/Importer Tool

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