

SOLIDWORKS INNOVATION DAY 2020

*Empowering
Design
Innovation*

Co-Organiser:



Strategic Partner:



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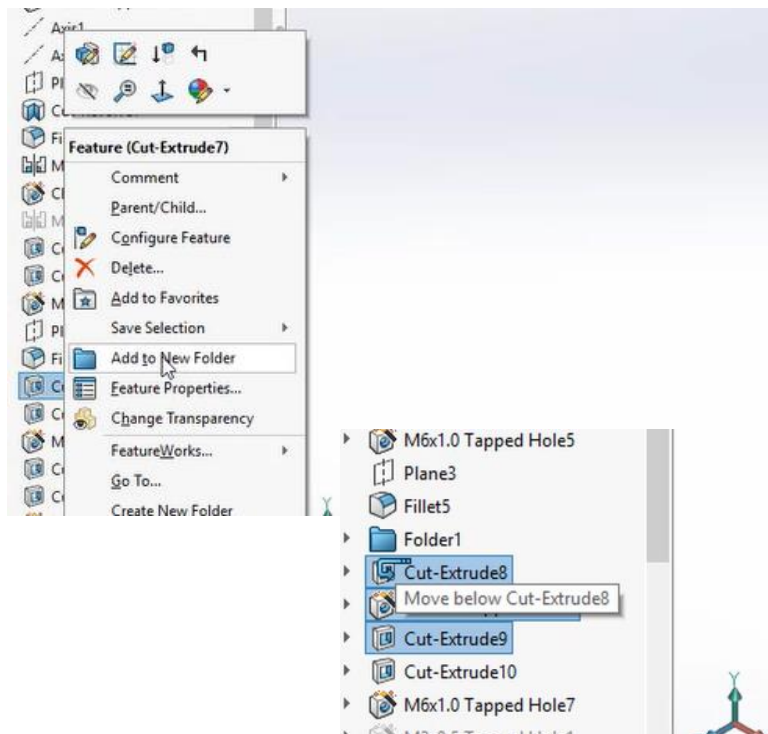
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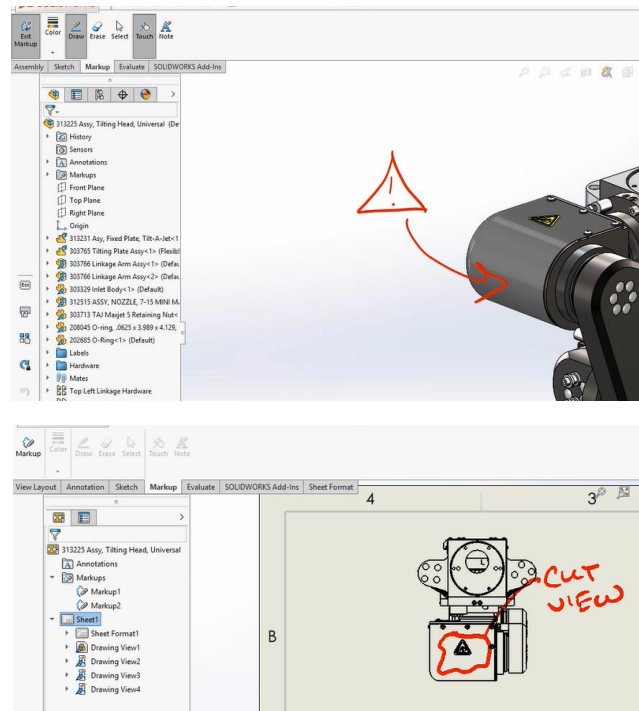
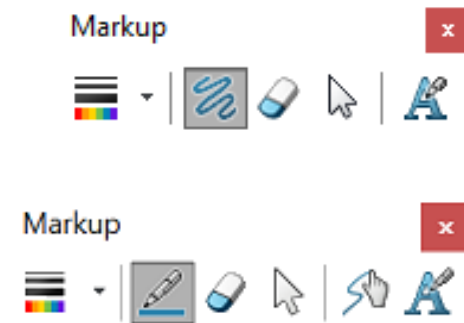
Drag Multiple Features to Folder

- Right Click a feature
- Click “Create New Folder”
- Select one or more features
- Drag features to Folder
- Rearrange the features in the Folder



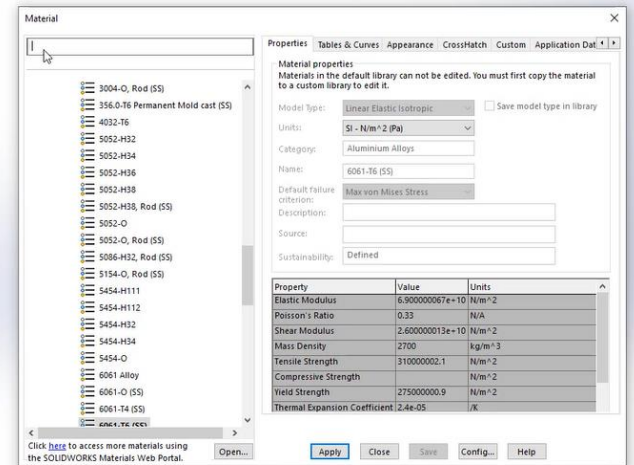
Markups

- Draw markups with a mouse on non-touch devices
- Display Bounding Boxes for markups

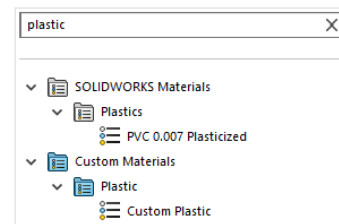


Search Box in SOLIDWORKS Materials

- Allows you to find materials using search box
- Search box above the materials database

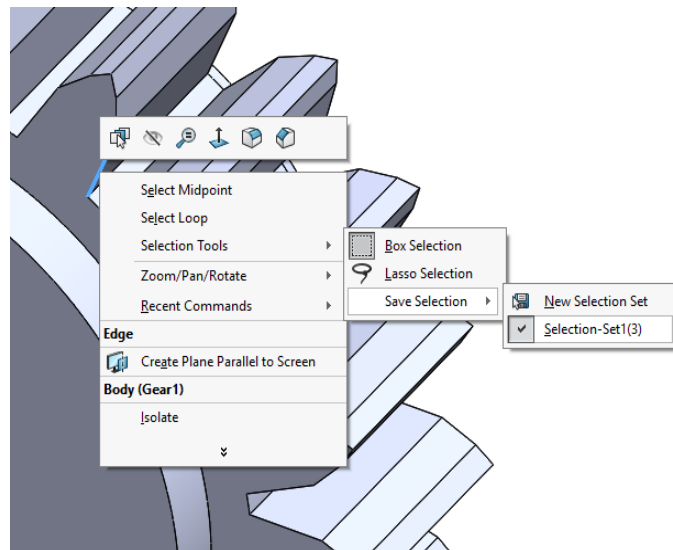


Material



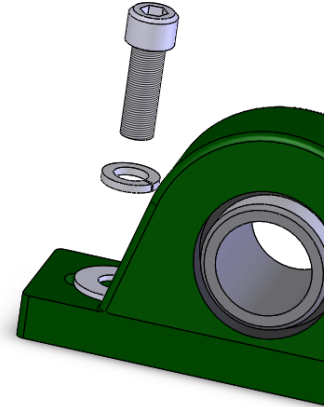
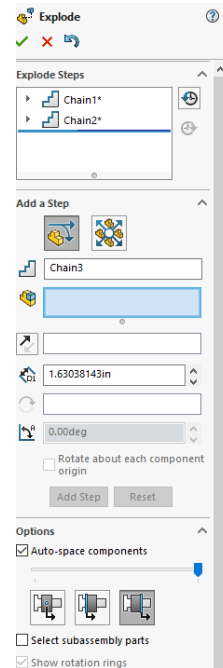
Selection Sets

- Add and remove selected items to new or existing selection set
- Able to add selected items to multiple selection sets
- Can direct drag from Feature Manager design Table or from Selection Set to another Selection Set
- Able to update entities in Selection Set



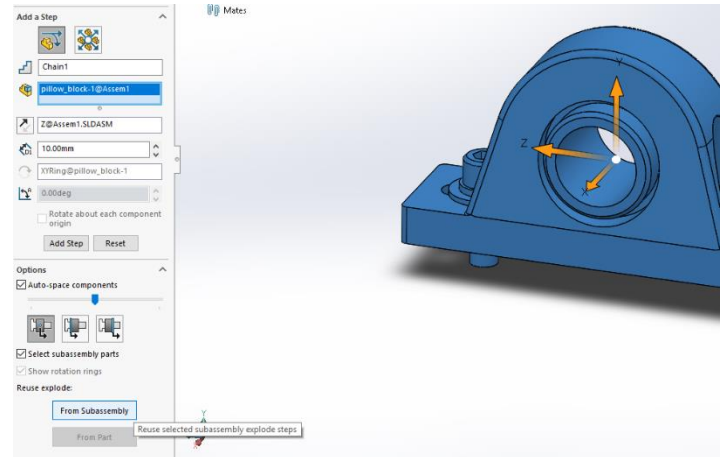
Auto-Space Components in Exploded View

- Enables auto-space of components for existing explode steps
- Able to select center, rear or front for order of auto-spaced components



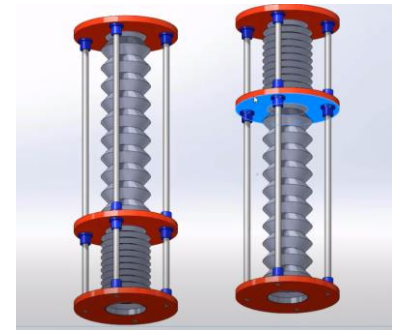
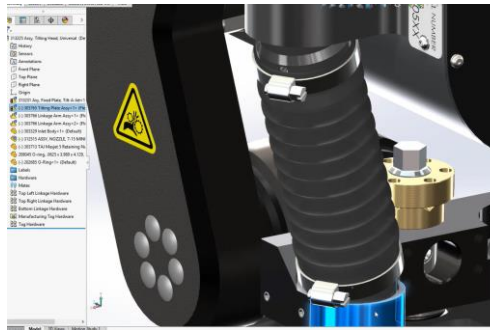
Reusing Multibody Part Explode

- Reuse exploded view from a multibody part in assembly
- Reuse subassembly explode in main assembly exploded view
- Reuse exploded view shows as single step



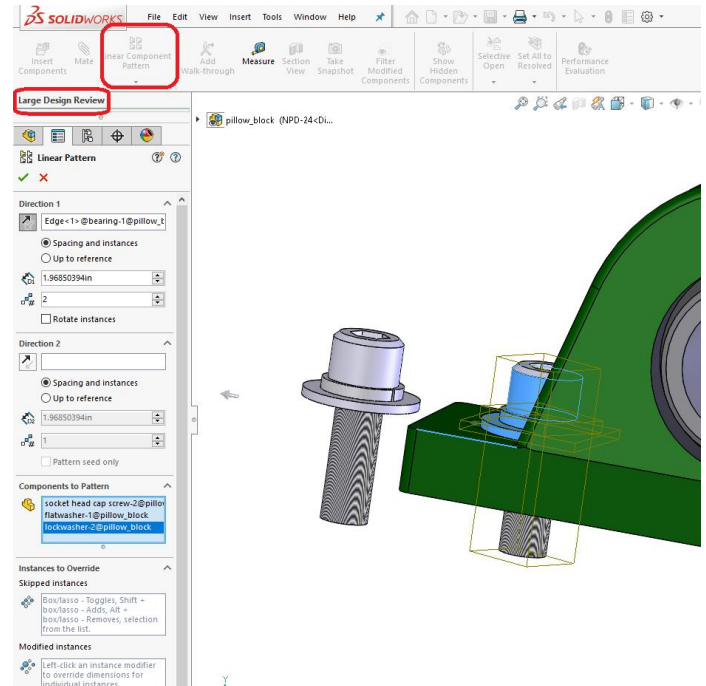
Flexible Components

- Define a part component as flexible to drive the geometry in assembly
- Can apply on the spring component, so the shape of the spring changes according to assembly geometry



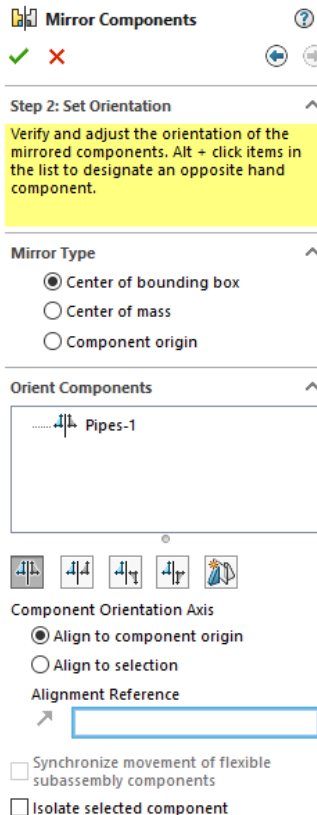
Create & Edit Component Patterns in Large Design Review

- Able to create and edit linear and circular pattern
- All existing pattern features can be deleted
- Able to edit the instances to skip for linear, circular, pattern driven and sketch driven



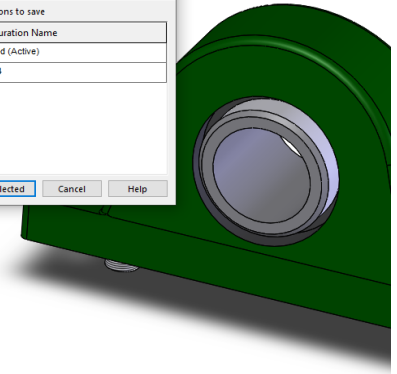
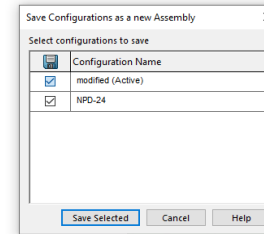
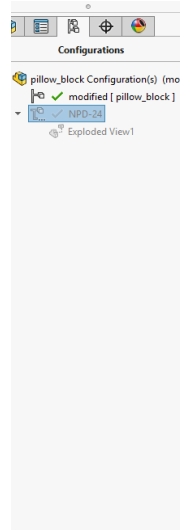
Enhancement on Mirror Features

- Mirror features or body using component origin
- Mirror features or body using orientation axis



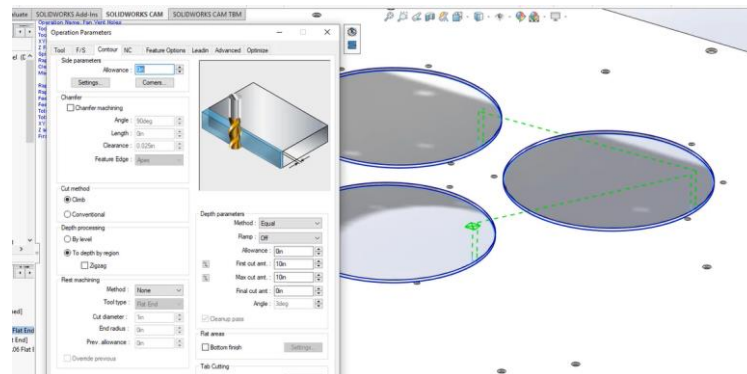
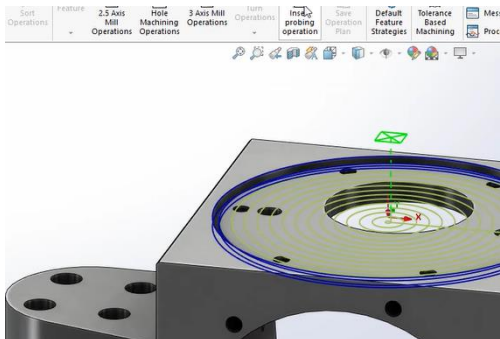
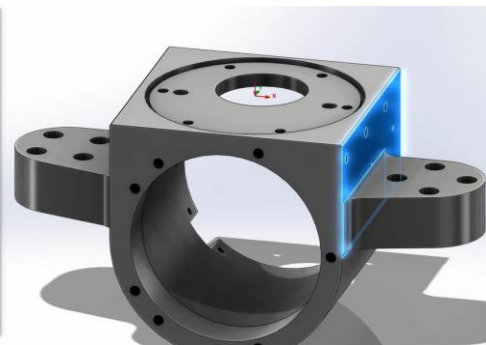
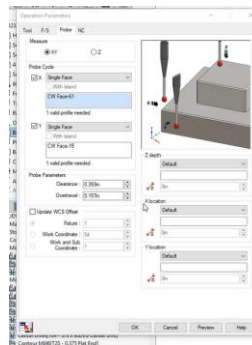
Save as Copy with Subset of Configurations

- Save a copy of part or assembly with subset configurations
- Create a copy of part while the specific configuration is activated



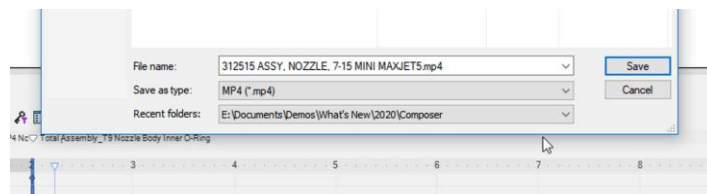
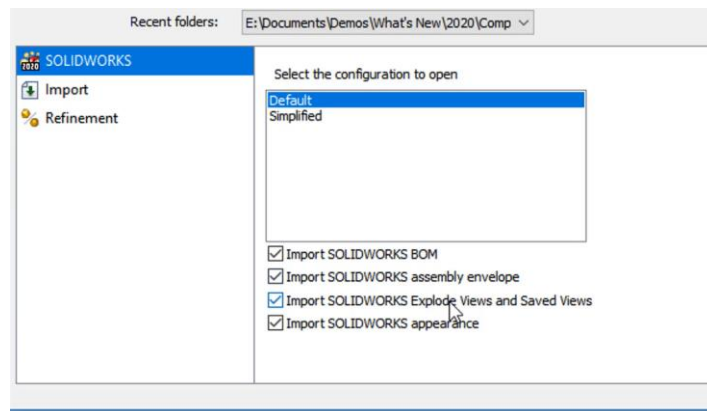
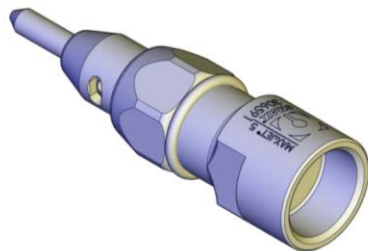
SOLIDWORKS CAM enhancement

- Probing Routines
- Support 3D PDF setup sheets
- Tab Cutting



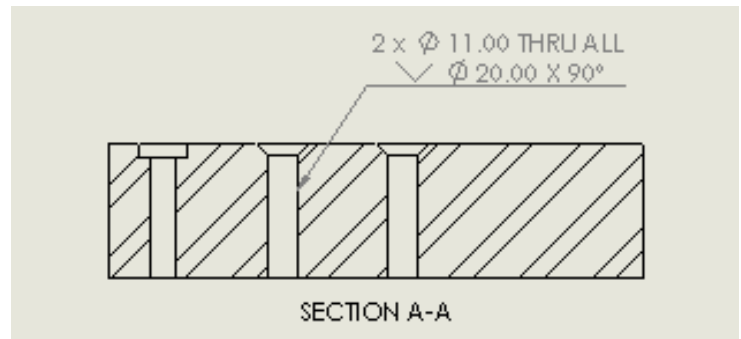
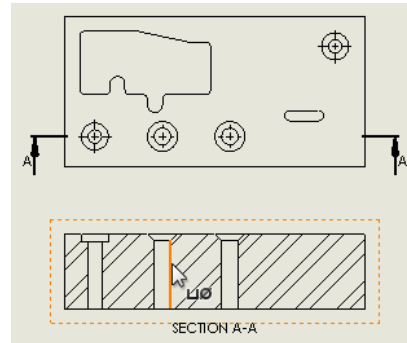
SOLIDWORKS composer enhancement

- Import appearances from SOLIDWORKS files
- Import Exploded, Saved, Named views from SOLIDWORKS files
- Support MP4 format for animations video



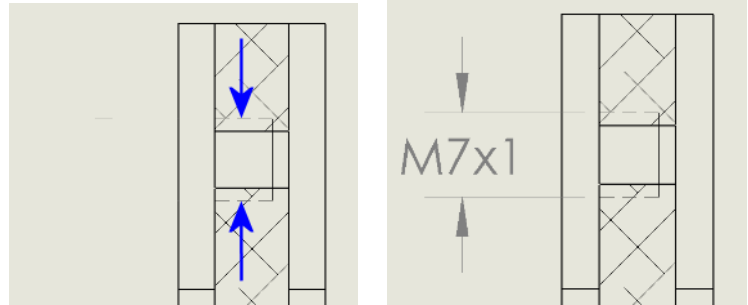
Add Hole callouts in section view

- Apply hole callout at cross-sectioned holes in section views



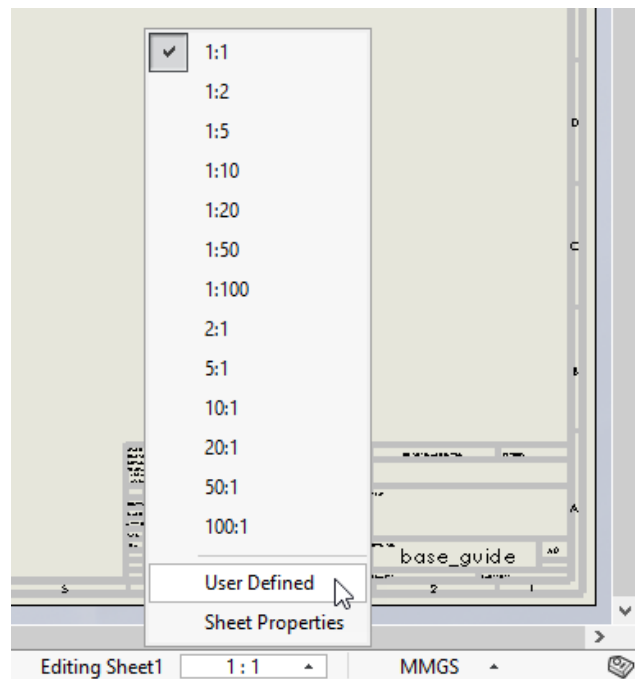
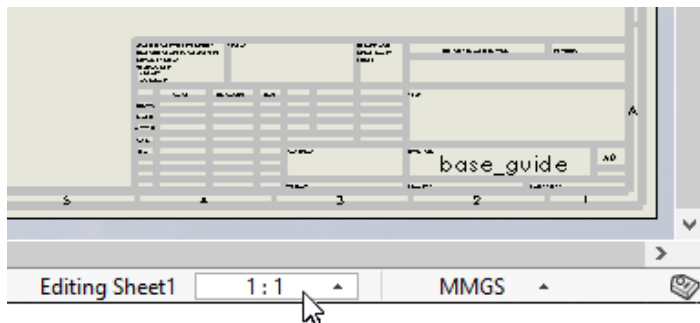
Adding Callouts for Non Hole-Wizard Holes

- Able to add cosmetic thread callouts to holes that are not created with hole wizard



Custom Scales for Drawing Sheets and Views

- Directly insert custom scale value in drawing sheet
- User defined option added

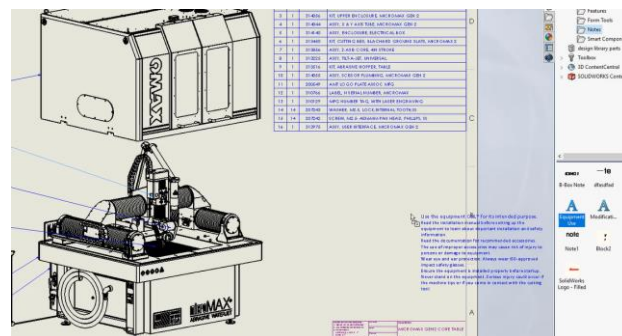
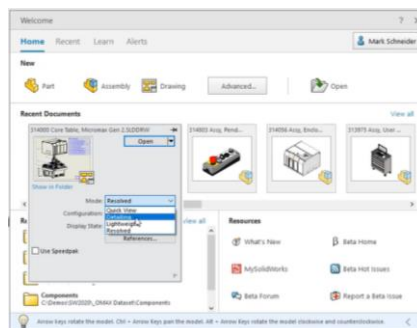
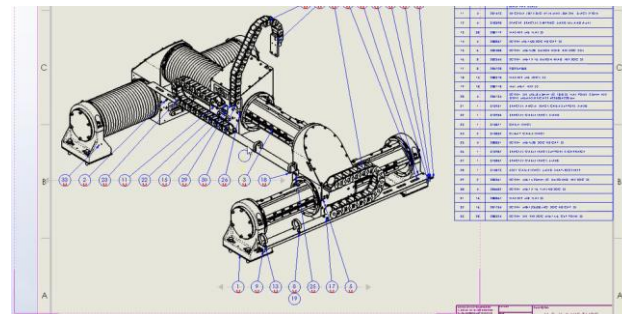


DETAILING AND DRAWINGS



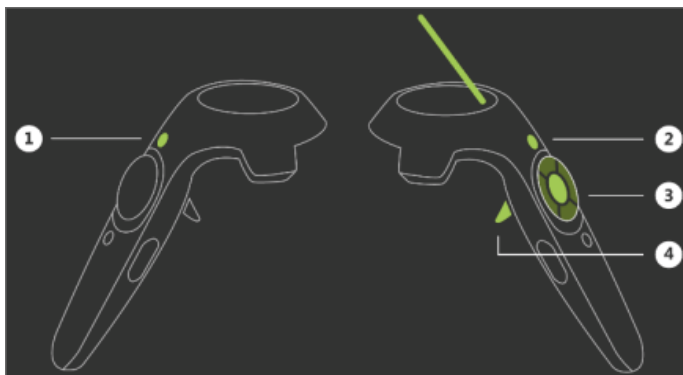
Detailing Mode




- Open Large assembly drawings quickly
- Add and edit revisions cloud, annotations, dimensions, add balloons and repositions the dimensions within the drawings without heavy model data loaded here



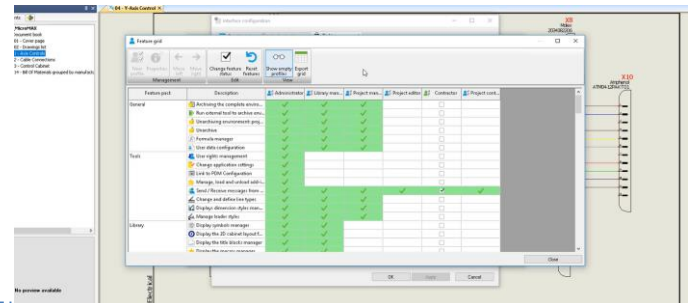
eDrawing Virtual Reality

- Review the 3D model in 1:1 scale
- Additional function when you interact with models
- Custom floor and sky environments



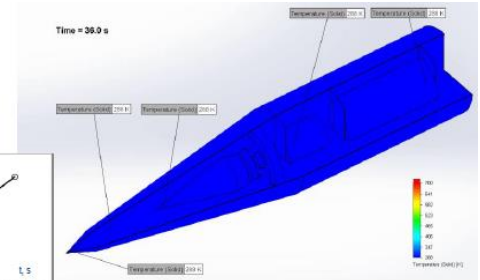
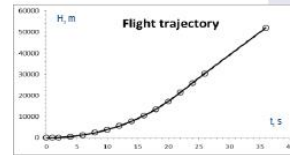
1. Create exploded view of the model
2. Reset the view
3. Scales/ Rotates the component
 -  Places the component.
 -  Changes the scale.
 -  Rotates the component.
4. Select components with one click

- Easily update BOM table details
- Able to define minimum bend radius and bend factor for cables and wires in schematics
- Create different user profiles with specific features

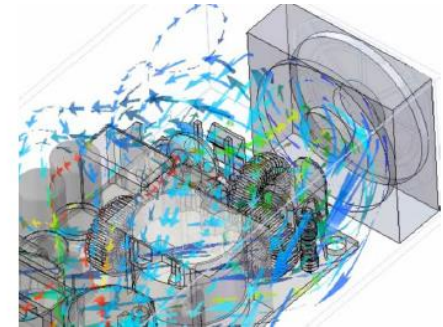


Enhancement on Flow Simulation

- Use Altitude to set atmospheric pressure and temperature
- Fan Derating, stimulates the reduction of the fan curve

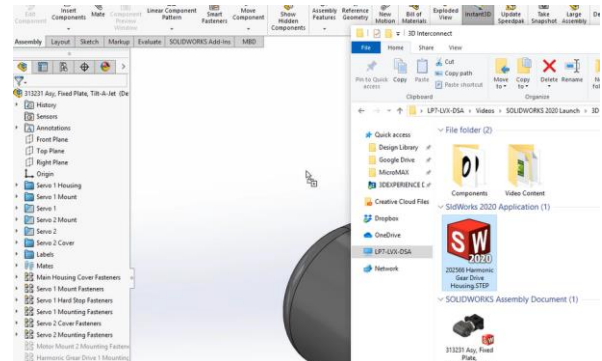
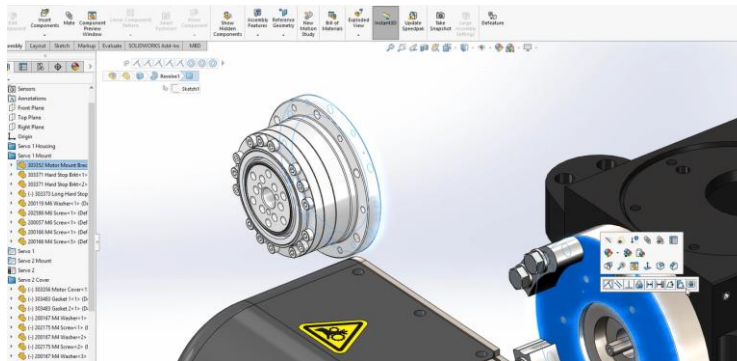


$$\Delta P_d = DF^2 \cdot \Delta P$$
$$\dot{m}_d = DF \cdot \dot{m}$$



3D interconnect enhancement

- Direct drag non-native SOLIDWORKS file into active part/ assembly
- Support BREP data from DXF/DWG
- Support IFC file

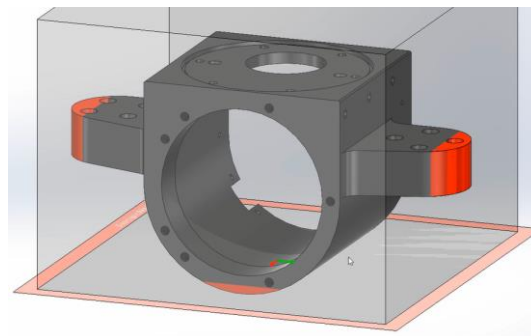
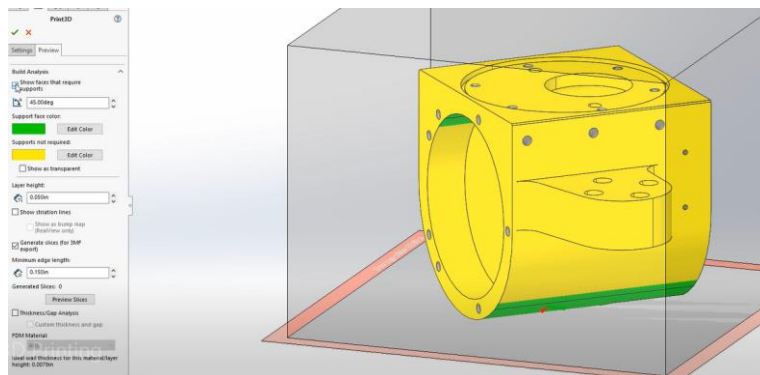


MODEL DISPLAY



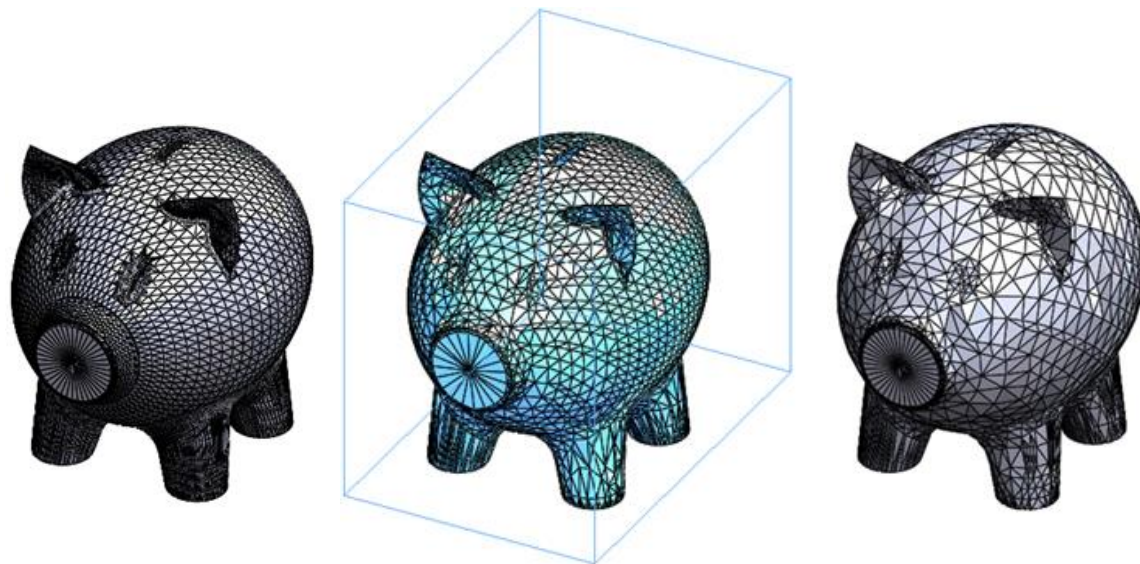
3D Printing Enhancement

- Checks 3D print size with machine properties
- Display reference cube
- Slicing Data for 3MF Export



Using Decimate Mesh Tool

- Decimate Mesh tool reduces the facet count in graphic mesh bodies.
- Lower facet count is easier to modify graphic mesh body

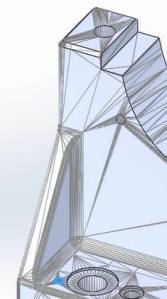
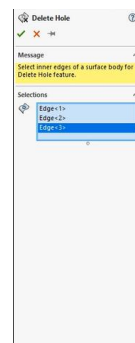
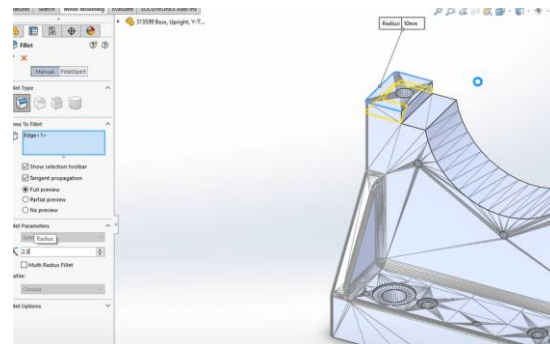


PARTS AND FEATURES



Graphic Mesh and Mesh BREP Bodies

- Add features to a graphic mesh body or a mesh BREP body
- Supports Shell, Fillet, Draft, Chamfer and a majority of the applied features

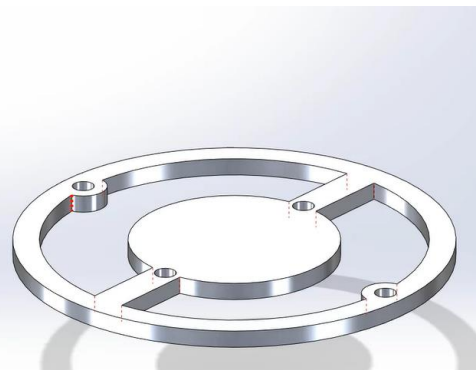
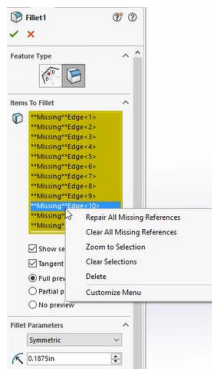
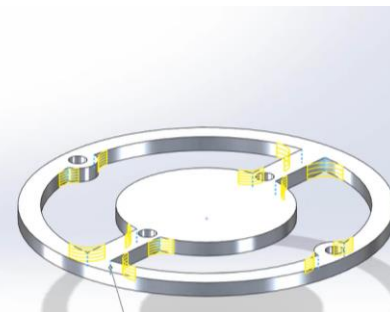
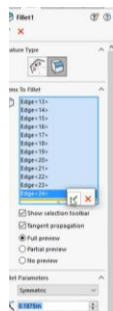


PARTS AND FEATURES



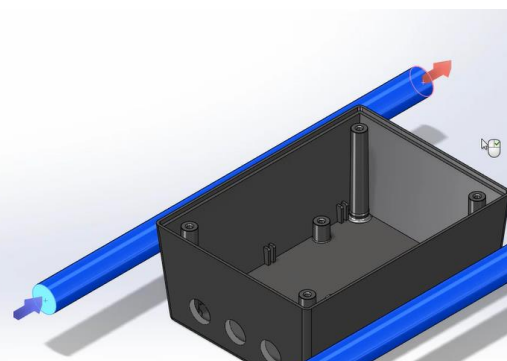
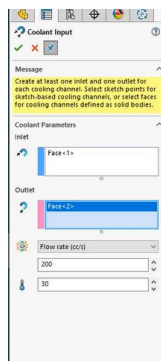
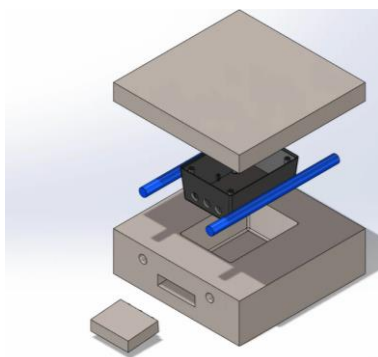
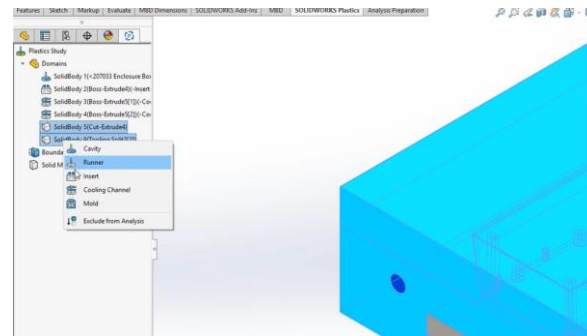
Repairing Missing References for fillets and Chamfers

- Auto repair option for missing references for Fillets and Chamfers
- Software attempts to reattach missing references when the location in model contains a valid physical edge



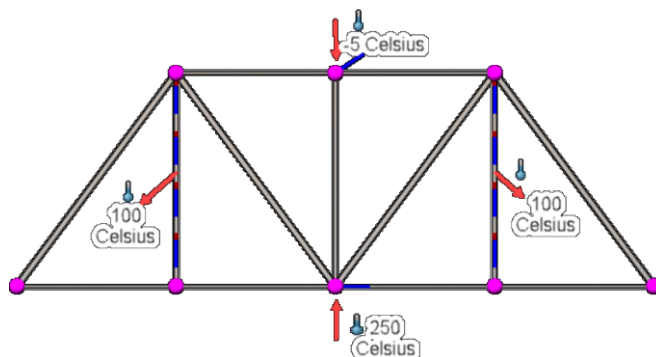
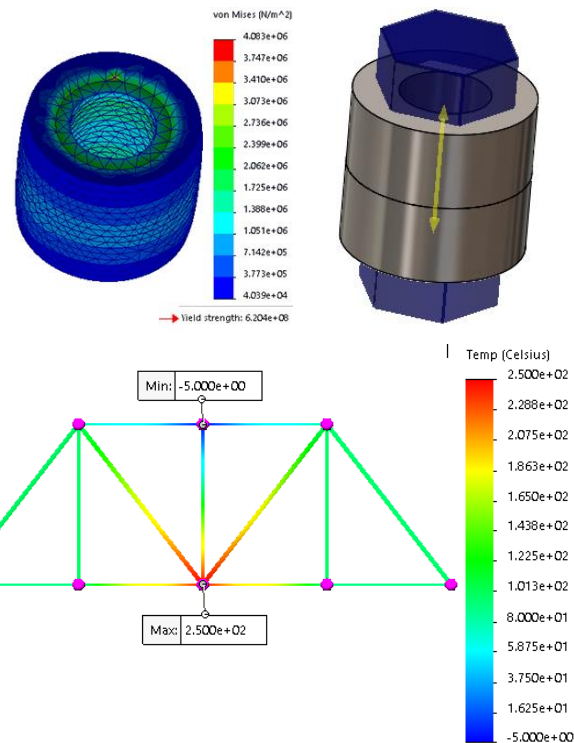
Closing Document When Save as New Copy

- Coolant Input Boundary Condition
- Create Body from deformed shape
- Flow, Pack, Cool analysis enhancements
- Virtual Mold Design



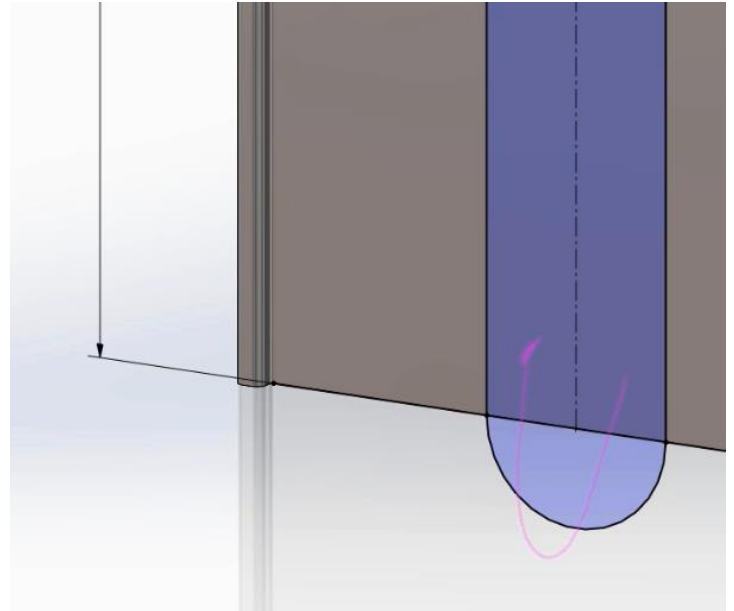
Simulation Enhancement

- Support distributed coupling for Pins and Bolts
- Free Body forces for non linear studies
- Mesh quality diagnostics
- Repair corrupt studies
- Thermal loads for Beams



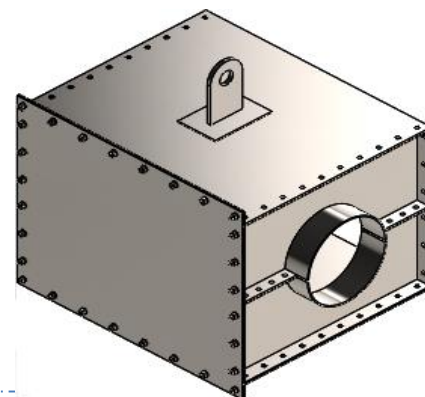
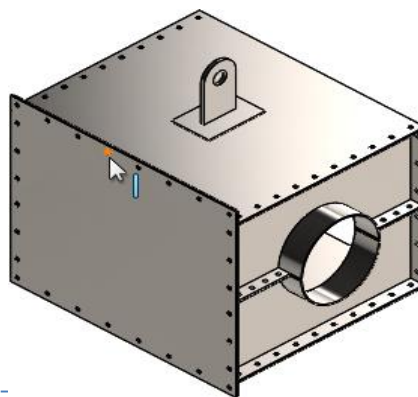
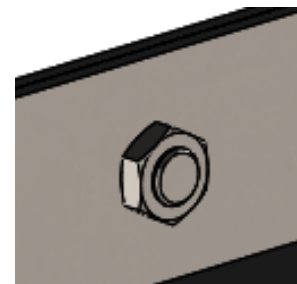
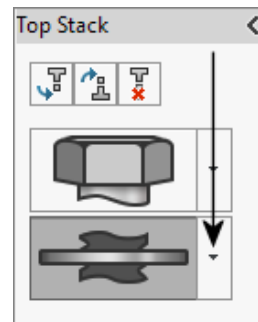
Sketching Enhancement

- Support torsion continuity relations
- Support imported 2D DXF/DWG files as references sketches
- Power Modify tool
- Tab Cutting features



Structural System Enhancement

- Point and Length members
- Create Curve beams and merge tangent members
- Split members
- Pattern and mirror support

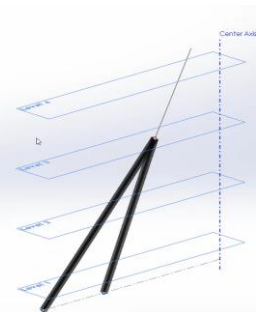
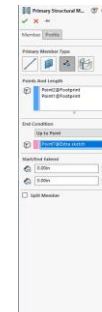
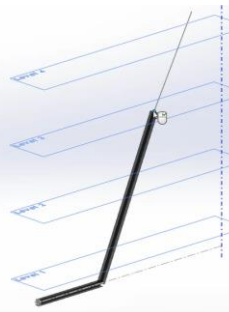
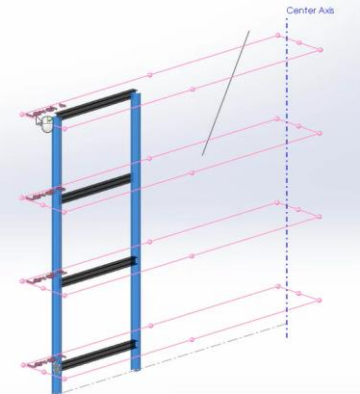
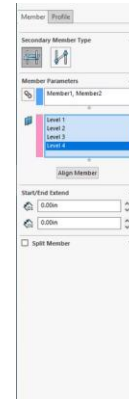


STRUCTURAL SYSTEM AND WELDMENTS



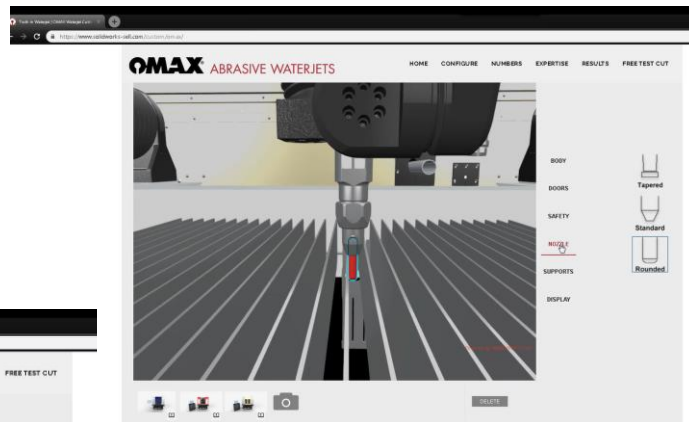
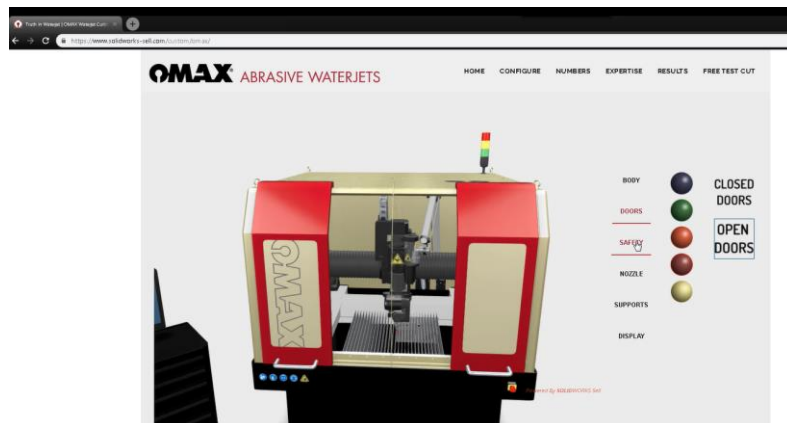
Structural System Enhancement

- Point and Length members
- Create Curve beams and merge tangent members
- Split members
- Pattern and mirror support



New platform for users to promote products

- Able to direct display whole assembly
- Assembly with different configuration
- Web base platform





IME GROUP OF COMPANIES



IME TECHNOLOGY SDN BHD (356192-T)

SELANGOR (HQ)
22A, Jalan PJS 1/46,
Taman Petaling Utama,
46000 Petaling Jaya,
Selangor, Malaysia.

KUCHING
2nd Floor, Sublot 17, Parent lots
9659 & 9276, Block 11 MCLD
Second Precinct, Jalan Setia Raja,
93350, Kuching, Sarawak.

IME TECHNOLOGY (PENANG) SDN BHD (677811-M)

68, Jalan Perai Jaya 4,
Bandar Perai Jaya,
13700 Pulau Pinang,
Malaysia.

IME TECHNOLOGY (JOHOR) SDN BHD (677810-P)

25-01, Jln. Bestari 8/2,
Tmn. Nusa Bestari,
79150 Iskandar Puteri,
Johor, Malaysia.

Technical support:

Email : swsupport@cadcam.com.my
Hotline : 1300-88-2797
Whatsapp : +6019-2692054

www.imetech.com.my