IME TECHNOLOGY SDN BHD

IME SOLIDWORKS INNOVATION DAY 2026

LET'S AMAZE TOGETHER!

Selangor | Penang | Johor | Sarawak

October 2025

Co-organisers: DASSAULT SYSTEMES, SOLIDWORKS

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45 YEARS OF INNOVATION & EXCELLENCE

Continuing the Journey

Forty-five years ago, IME began with a simple goal — to help local industries work smarter by supporting their tools and machines. Over the decades, we have embraced change, challenged norms, and ventured into new frontiers of technology. Today, as we celebrate 45 years of innovation and excellence, we continue to pursue a future that is fit for the digital age, empowering industries to innovate with purpose, agility, and heart.

This year's theme, "**Let's Amaze Together**" reflects our ongoing commitment to pushing boundaries through Fit-for-the-Future Digital Transformation. We explored the potential of AI, not as a replacement for human ingenuity, but as a tool to enhance efficiency, precision, and productivity across our operations. It is this mindset of leveraging technology while keeping human creativity at the center that continues to guide our journey forward.

Over the past year, we strengthened our relationships with key government agencies, building on successful collaborations with the Northern Corridor Economic Region (NCER), MIMOS Digital Transformation and Technology Management (DDTM), Standards and Industrial Research Institute of Malaysia (SIRIM), and the Federation of Malaysian Manufacturers (FMM). Our TUSAS Apprenticeship Programme continued to nurture the next generation of talent, while our engagements with universities such as Tunku Abdul Rahman University of Management and Technology (TARUC) and Universiti Sains Malaysia (USM) during the LIMA visit reinforced our commitment to education and industry-academic collaboration. These initiatives help prepare future-ready professionals and strengthen the wider ecosystem of innovation.

Across our operations, exciting developments in technology adoption, process optimisation, and service excellence have also continued to unfold. From advancing digital tools that enable greater efficiency and precision, to introducing new approaches that enhance collaboration and customer experience, these efforts reflect our drive to remain at the forefront of transformation. Each step we take is guided by a commitment to deliver practical solutions that create lasting value — ensuring industries are not only equipped to meet today's challenges, but are also ready to seize the opportunities of tomorrow.

IME Innovation Day is more than a showcase of technology — it is a celebration of resilience, collaboration, and forward-thinking that spans 45 years. Our journey is far from over. Together with our customers, partners, and communities, we remain committed to exploring new horizons, inspiring innovation, and shaping a future that is truly fit for the next decade and beyond.

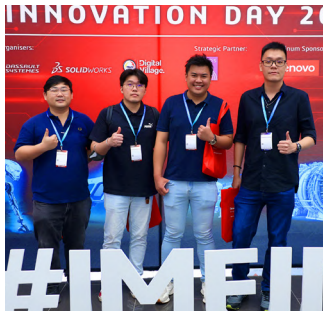
Thank you for being part of our journey.

T.K. Teoh

Teoh Tuan Ka
*Founder and Chairman, **IME Group of Companies***

IME INNOVATION DAY 2025 SELANGOR

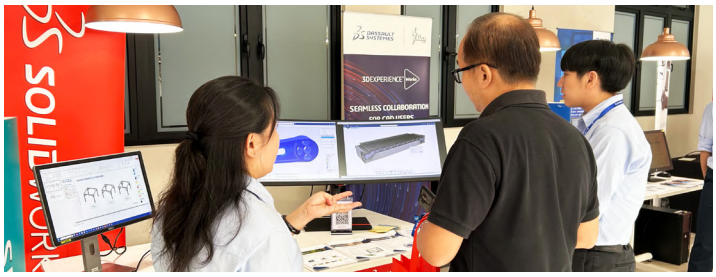
IME INNOVATION DAY 2025 PENANG



IME INNOVATION DAY 2025 JOHOR





IME INNOVATION DAY 2025 SARAWAK






DELL Technologies

Understanding Dell Pro Max Users and Use Cases

Dell Technologies is simplifying our product portfolio to make it easier to make product decisions based on unique workflow and solution priorities. Use this guide to:

1. Correlate performance, scalability and configurability across the Dell Pro Max portfolio.
2. Identify the three Dell Pro Max user types that are common across all industries which map to specific products.
3. Prioritize use cases based on end-user workflows as a guide to the appropriate product.

A Tailored Product Lineup

Our product portfolio ranges from consumer PCs and gaming systems to Dell Pro for professional-grade productivity and Dell Pro Max for performance and scalability.

Why Pro Max?

Dell Pro Max products are engineered to serve professionals with demanding, data-intensive workflows where performance, scalability and reliability are critical to productivity and success.

Key Value Propositions:

- Designed for professionals with data-intensive workflows
- Customizable performance to match unique user needs
- Scalable solutions across diverse professional applications

Pro Max = Performance

Professional workflows demand power. From Excel data to 3D CAD, Dell Pro Max users need to multitask, interact rapidly and handle complex applications.

Characteristics:

- Supports seamless multitasking across complex applications
- Enables rapid data interaction and quick delivery of results
- Engineered to handle large datasets effortlessly with the power of GPU

Configurable and Scalable

The true strength of Dell Pro Max lies in its adaptability. An architect designing a 50-story high-rise and another working on a single-family home will have different computational needs, but both can find a tailored solution that precisely matches their workflow requirements.

Characteristics:

- Adaptable to varied workflow needs and project complexities
- Systems designed and configured to match individual professional requirements with up to Quad NVIDIA Professional GPUs
- Support for multiple monitor setups and high-resolution displays

Three common user types across all industries who require performance PCs

Power users and collaborators

Business stakeholders needing performance to interact with critical, complex or large datasets.

- Managers
- Leaders
- Stakeholders
- AI end users

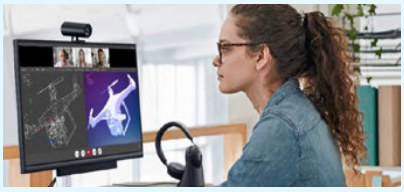
Recommended products:
Dell Pro Max, Dell Pro Max Premium, Dell Pro Max Slim/Micro

Creators

Professionals primarily creating digital design, data or content.

- Engineers
- Designers
- Artists
- Editors
- Scientists

Recommended products:
Dell Pro Max, Dell Pro Max Premium, Dell Pro Max Plus, Dell Pro Max Slim/Micro, Dell Pro Max Tower T2, Dell Precision 5860 Tower



Specialists

Experts using advanced computing solutions that scale with core count.

- Computational fluid design engineer
- Visualization specialist
- Reality capture engineer
- Energy researchers
- AI builders and developers

Recommended products:
Dell Pro Max Plus, Dell Pro Max Tower T2, Dell Precision 5860 Tower, Dell Precision 7960 Tower, Dell Precision 7875 Tower

Product View with Prioritized Use Cases/Features

		POWER USERS AND COLLABORATORS / CREATORS / SPECIALISTS							
	Product Name	Performance	Certified and optimized ISV tools	AI enablement of local workloads	Access, interactivity and collaboration features	Business intelligence workflows for power users	Scalability and configurability	Large data workloads (analyze, simulate, visualize)	AI development
Powered by NVIDIA RTX GPUs	Dell Pro Rugged	◔	○	◑	●	◔	◔	○	○
	Dell Pro Max	◑	●	●	●	●	◔	◔	○
	Dell Pro Max Premium	◑	●	●	●	●	◑	◔	○
	Dell Pro Max Plus	●	●	●	●	◕	◕	◕	◑
	Dell Pro Max Slim/Micro	◑	●	●	◑	●	◔	◔	○
	Dell Pro Max Tower T2	●	●	●	◑	◑	◕	◕	○
	Dell Precision 5860 Tower	⊕	●	●	◑	◑	●	●	●
	Dell Precision 7960 Tower	⊕	●	●	◑	◑	⊕	●	●
	Dell Precision 7875 Tower	⊕	●	●	◑	◑	⊕	●	●

DELL Technologies

NVIDIA

DDTM SOLIDWORKS Certification Programme 2025: A Milestone for Malaysian SMEs

A First for DDTM, Powered by MIMOS, Delivered by IME

As the inaugural certification programme organised by DDTM (Digital Design & Technology Malaysia), this milestone was powered by MIMOS and supported by IME Technology. IME trained participants across the Fundamental, Intermediate, and Advanced Certified SOLIDWORKS Professional (CSWP) levels, ensuring they not only passed certification exams but also developed practical skills for real-world product design and engineering workflows.

Participants didn't just walk away with certificates — they gained the ability to design smarter, streamline development, and bring greater innovation to their organisations.

What is SOLIDWORKS Certification and Why It Matters

The Certified SOLIDWORKS Professional (CSWP) credential is globally recognised as a mark of excellence in 3D CAD design. Certified professionals demonstrate the ability to create complex parts and assemblies, solve engineering challenges, and apply best practices in design and manufacturing.

For SMEs, having CSWP-certified staff means faster product development, fewer design errors, and a stronger competitive edge in innovation-driven markets. This makes the DDTM programme particularly valuable for companies looking to strengthen their in-house design capabilities and scale products from concept to production.

Empowering SMEs Across Malaysia

This September, the first DDTM SOLIDWORKS Certification Programme concluded successfully, drawing **over 150 registrations** from across the nation. From this pool, **80 participants** embarked on the journey at Fundamental level, with **47 advancing to Intermediate**, and ultimately **31 progressing to the Advanced stage and successfully earning CSWP certification** — a highly selective achievement that positions these professionals as trailblasers in digital design.

Training sessions were conducted across Malaysia's key innovation hubs — **Kuala Lumpur, Penang, Kulim, Johor, and Kuantan** — ensuring the programme's influence reached SMEs nationwide.

Building on the previous year's initiatives, which provided **over 100 SOLIDWORKS licences** and foundational training to SMEs, this programme continues to strengthen **practical skills and in-house design capabilities**, helping companies scale products from concept to production.

> This programme was proposed to enable SMEs to create, design, and develop their own products, and eventually scale up to mass production.
>
> **Mr. Sheikh M Shahrizal Mohd Rafique**
> *MIMOS BERHAD*

Beyond Certification: IME's Commitment to Continuous Upskilling

IME's role in Malaysia's talent development extends far beyond certifications. With decades of experience in engineering solutions and training, IME continues to support manufacturers, SMEs, and professionals through:

- **Advanced Training Programmes:** from CAD, CAM, and CAE to additive manufacturing and smart automation.
- **Industry Collaboration:** partnering with government agencies, universities, and companies to accelerate innovation.
- **Technology Deployment:** helping companies adopt and integrate SOLIDWORKS, simulation, and digital manufacturing platforms.
- **End-to-End Support:** consultancy, hands-on workshops, and ongoing technical guidance to ensure sustainable growth.

By connecting certification, past initiatives, and practical upskilling, IME positions Malaysia's workforce to **design, innovate, and scale with confidence** in the era of Industry 4.0.

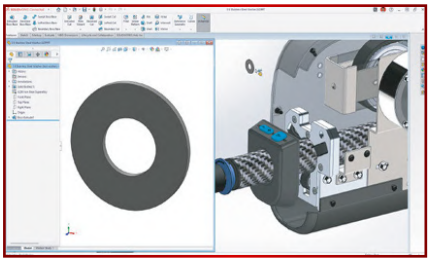
Looking Ahead: Building Malaysia's Digital Design Talent

The overwhelming response to this year's programme makes one thing clear: this is just the beginning. With SMEs and professionals across Malaysia eager for upskilling, future editions of the **DDTM SOLIDWORKS Certification Programme** have the potential to reach even more participants.

With an increasing number of SOLIDWORKS-certified professionals — with IME as the supporting partner — Malaysia is taking meaningful steps toward building a workforce capable of **innovating, competing, and leading in the Industry 4.0 era**.

WHAT'S NEW IN SOLIDWORKS® 2026 - DESIGN

All enhancements apply to SOLIDWORKS Design solutions unless stated otherwise.

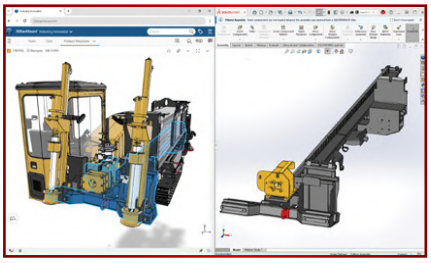


1 AI-POWERED DESIGN AND DETAILING

- Speed up drawing creation with AI-powered views and hole callouts, as well as automated dimensioning, detailing, sheet format selection, and scaling.
- Use AI to automatically recognize and assemble components that look like fasteners — such as nuts, bolts, washers — saving time, reducing manual effort, and improving assembly accuracy.

Benefits

Accelerate assembly design and drawing creation through the power of AI.

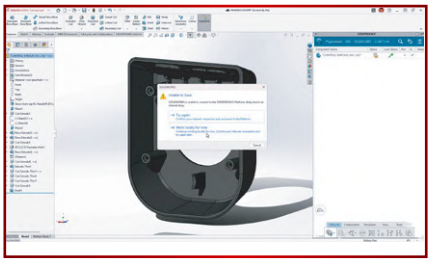


2 ENHANCED LARGE ASSEMBLIES FEATURES

- Speed up the opening of large assemblies by selectively filtering specific portions of your design from the **3D**EXPERIENCE® platform using component relationship visualization and advanced filters to find relevant parts.
- Skip rebuilds when only cosmetic changes are made.
- Disable Auto-Resolve for lightweight components.

Benefits

Work smarter with large assemblies using more streamlined, production-ready workflows.

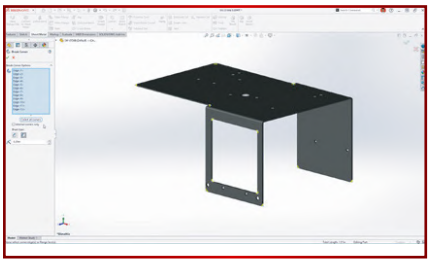


3 IMPROVE USER EXPERIENCE

- Maintain productivity during connectivity issues with automatic offline mode for uninterrupted access.
- Simplify workflows with a UI that highlights commonly used commands, helping new users focus on design.
- Find commands more easily in Command Search using an expanded, customizable set of keywords.

Benefits

Stay productive even during internet disruptions, and help new users get up to speed faster.

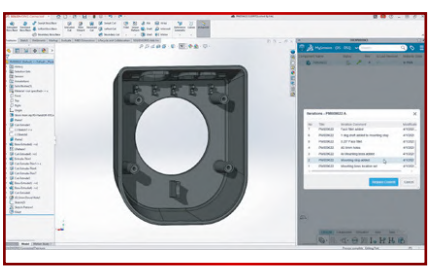


4 STREAMLINED PART DESIGN

- Streamline Physical Product creation by easily adding key attributes at the start of the design process.
- Define a custom start point for a sheet metal base flange and break internal corners on folded geometry.
- Quickly create square sketch geometry in one click.

Benefits

Create parts faster with improvements to part features and sketching.

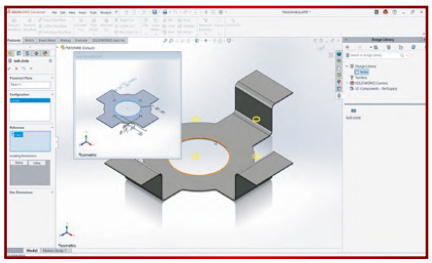


5 MORE EFFICIENT COLLABORATION AND DATA MANAGEMENT

- Track maturity changes and view drawing history with Evaluated Attributes, eliminating manual updates.
- Share designs using 3DDrive and 3DSwym, and access the User Forum directly from within SOLIDWORKS.
- Update a selected file to the latest version on the **3D**EXPERIENCE platform, ensuring accuracy.

Benefits

Stay connected and up-to-date more easily with both your data and team.

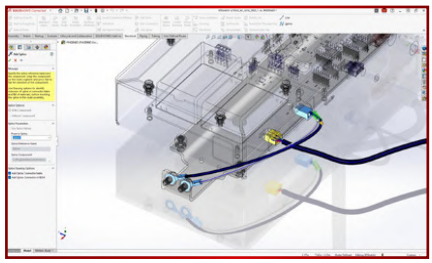


6 IMPROVED DRAWING DETAILING AND MBD

- Insert a Family Table into a drawing to display cofiguration details and custom properties.
- Use magnetic lines to support attaching and aligning Notes, Weld Symbols, and other annotations - beyond just balloons. expanded
- Propagate DimXpert™ dimensions to Library Features, and selectively hide and show annotations.

Benefits

Streamline drawings with expanded detailing options and improved MBD annotation control.

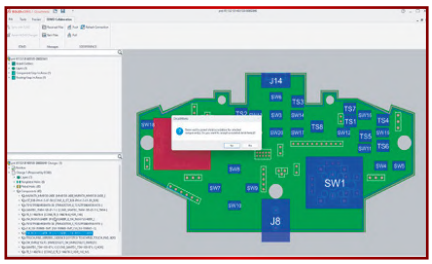


7 MORE FLEXIBILITY FOR ELECTRICAL, PIPE, AND TUBE ROUTING*

- Combine routing BOMs from multiple subassemblies to show a clear total for each item used across the design.
- Route pipe, tube, and electrical paths using clips, mounts, or hangers placed in parts or assemblies, improving design flexibility.
- Provide clear visual indicators to guide placement of splices within harness and wire bundles, enhancing accuracy.

Benefits

Streamline routing design and reduce manual effort with expanded capabilities.

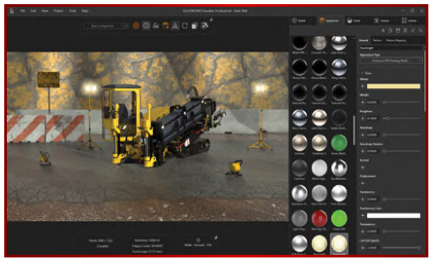


8 STREAMLINED ECAD/MCAD COLLABORATION AND DESIGN

- Store and track parent and child data — including keep-in, keep-out, PTH, and NPTH details — improving traceability.
- Using CircuitWorks™, review and undo MCAD changes before final ECAD updates by overwriting the previous push in IDX 3.0.

Benefits

Streamline the ECAD /MCAD collaboration process for a more complete PCB design workflow.

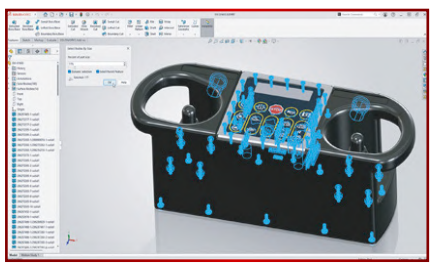


9 MORE EFFICIENT RENDERING**

- Balance geometry quality and performance with tessellation control and faster import speeds.
- Reduce noise in fewer passes by enabling the Denoiser in CPU mode.
- Streamline the creation of renderings from imported models with support for PBR materials in USDZ and glTF file formats.

Benefits

Create more compelling, immersive content to inspire your customers.



10 MORE PRODUCTIVE IMPORT/EXPORT

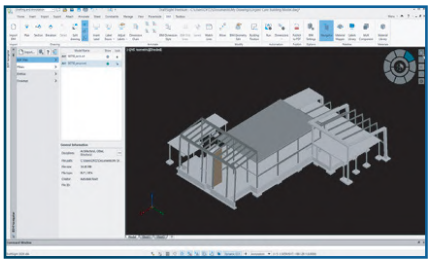
- Simplify complex multibody parts faster by using advanced selection tools to efficiently isolate and manage bodies based on similarity or size.
- Share assemblies saved on the **3D**EXPERIENCE platform using the Export as Package option in the Share dialog box.
- Streamline exports by choosing whether to include drawings in your package, for greater control.

Benefits

Save time and reduce errors when collaborating outside your team.

WHAT'S NEW IN DRAFTSIGHT 2026

These enhancements apply to all DraftSight Augmented and DraftSight solutions unless stated otherwise.

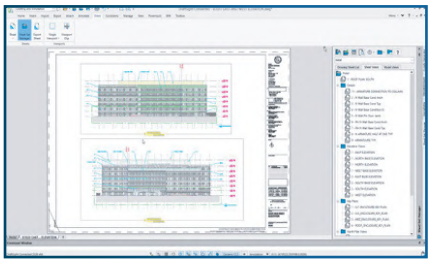


1 BIM MODULE*

- Enhance your 2D drafting by integrating Building Information Modeling (BIM).
- Import RVT and IFC files to generate precise plans, sections, elevations, and schedules, streamlining collaboration and communication.

Benefits

Bridge collaboration between 3D and 2D teams.

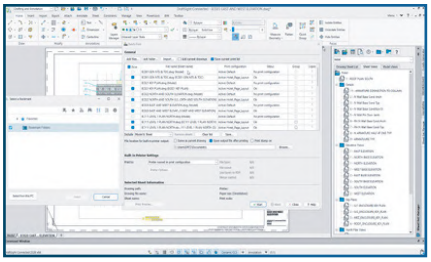


2 SHEET SET MANAGER ON THE PLATFORM**

- Streamline project organisation by managing drawing sheets with the Sheet Set Manager.
- Create and group sheets, apply templates, use custom properties, and manage sheet model views to standardise and efficiently publish documentation across your project.

Benefits

Standardise project documentation and simplify publishing.

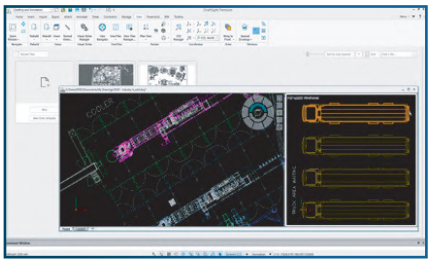


3 BATCH PRINT FILES IN COLLABORATIVE SPACE**

- Accelerate your printing workflow by processing multiple drawings at once directly within your Collaborative Space, ensuring consistent output and use of the latest version.

Benefits

Save time and ensure printing consistency across teams.

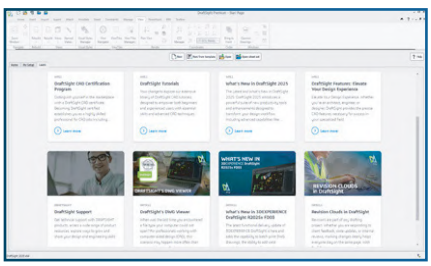


4 FLOAT DOCUMENT WINDOWS*

- Boost productivity on multi-monitor setups by detaching drawing tabs into separate, movable windows. This feature is ideal for side-by-side comparison and editing of multiple drawings in a single session.

Benefits

Improve productivity and workflow for multi-monitor users.

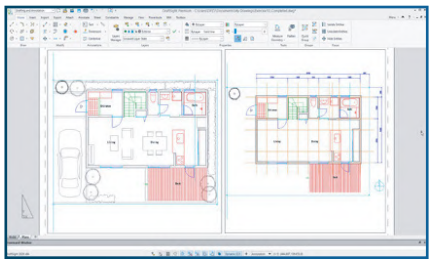


5 CENTRALISED START HUB*

- Gain quick access to workspace settings, projects, recent files, and learning resources with the new centralised launchpad for streamlining your workflows from the moment you open the application.

Benefits

Access projects, recent files, and resources faster.

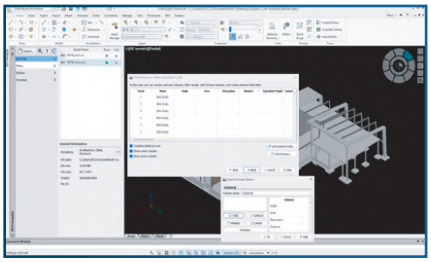


6 IMPROVED RIBBON TABS CONTENT

- Work more efficiently with a cleaner, better-organised ribbon interface that enhances usability through improved command access and familiar, customisable workspace layouts.

Benefits

Streamline workflows with quicker and more intuitive command access.

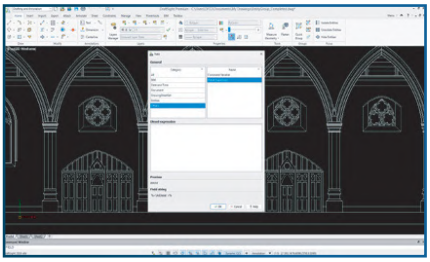


7 DATAEXTRACTION COMMAND IMPROVEMENTS

- Extract data more efficiently thanks to new features, including CSV headers and built-in formula columns that reduce manual work and streamline integration with other applications.

Benefits

Reduce manual work and errors in data extraction.

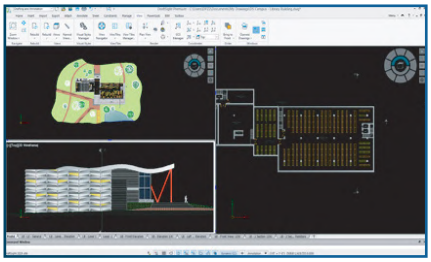


8 FIELD COMMAND: ADD DIESEL EXPRESSION SUPPORT

- Achieve greater flexibility and automation by using custom fields with Diesel expressions, which allows for calculations and conditional formatting directly within your drawings' text.

Benefits

Automate dynamic text and calculations within drawings.

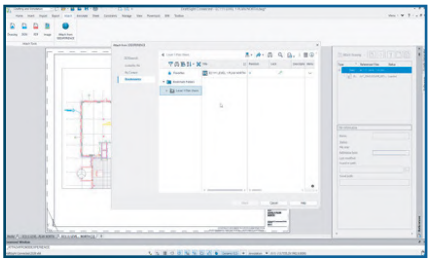


9 RESIZABLE VIEW TILES IN MODEL SPACE*

- Improve multitasking within your CAD workflow with adjustable view tiles that let you efficiently view and navigate multiple model areas simultaneously through intuitive resizing and alignment.

Benefits

Improve multitasking and simultaneous model navigation.



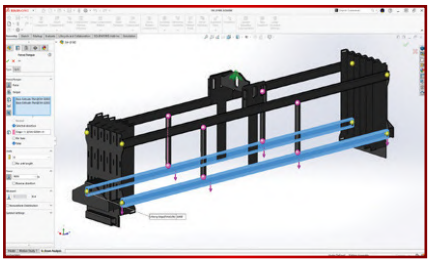
10 MORE PRODUCTIVE IMPORT/EXPORT

- Enhance collaboration and streamline workflows by directly attaching DWG files from the cloud-based **3D**EXPERIENCE platform as external references, improving overall data management.

Benefits

Simplify cloud data management and team collaboration.

WHAT'S NEW IN SOLIDWORKS® 2026 - SIMULATION

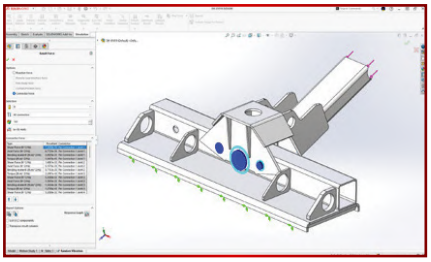


1 FORCE OPTIONS FOR BEAMS

- Choose between Per Item and Total definitions when applying force to beam elements.
- Gain more precise control in structural simulations.

Benefits

Improve modeling efficiency with greater flexibility inload definition.

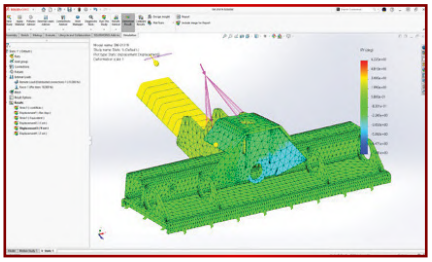


2 PIN CONNECTOR FORCE RESULTS IN RANDOM VIBRATION

- Extract detailed Pin Connector forces in random vibration simulations.
- Obtain full-force breakdown, including shear force, axial force, bending moment, and torque.

Benefits

Improve design accuracy and streamline analysis of pinned joints in vibration environments.

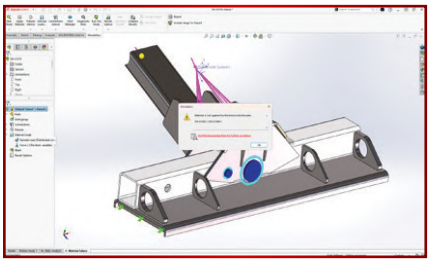


3 ANGULAR DISPLACEMENT PLOT OPTIONS

- Plot angular rotation results in either degrees or radians, offering greater flexibility in how displacement data is displayed and interpreted.

Benefits

Choose the angle measurement unit to align with your engineering standards and project requirements.

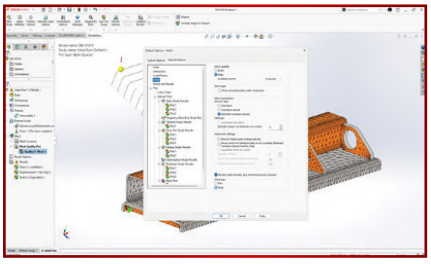


4 VALIDITY CHECK IMPROVEMENTS

- Improve simulation reliability with clearer alerts for missing materials, invalid mesh controls, and incomplete fixture definitions.
- Accelerate issue resolution with one-click deselection for reports, quicker access to stress diagnostics, and streamlined validation messages.

Benefits

Boost simulation accuracy and speed by resolving setup issues with clearer, faster diagnostics.

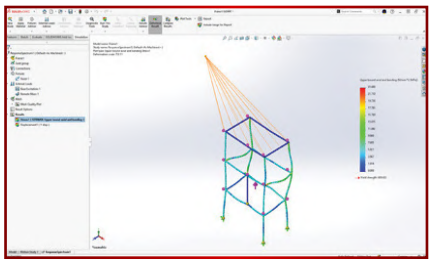


5 SHELL IMPROVEMENTS

- Save time on setup by setting global defaults for thick or thin shell definitions.
- Specify distributed remote loads/mass on shell edges.

Benefits

Streamline setup and enhance modeling accuracy for complex shell structures.

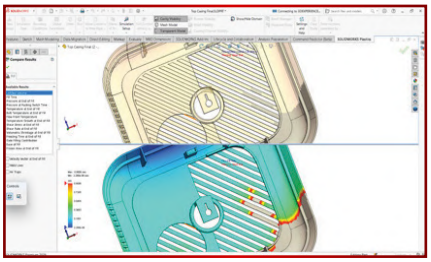


6 REMOTE MASS IN RESPONSE SPECTRUM

- Apply remote masses as part of response spectrum analysis.
- Capture the effect of components not included in the mesh by applying their mass externally to the structure.

Benefits

Optimise simulation setup by using remote masses in place of physical components.

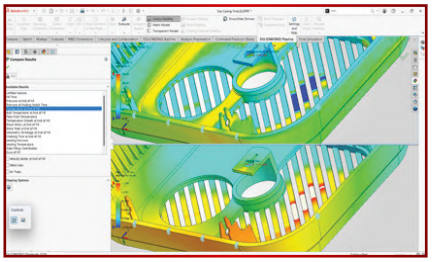


7 POST-PROCESSING ENHANCEMENTS

- View the new Unfilled Volume plot added in Fill simulation results alongside short-shot predictions.
- Easily identify areas that remain unfilled due to incomplete material injection.

Benefits

Identify incomplete material injection zones alongside short-shot predictions.

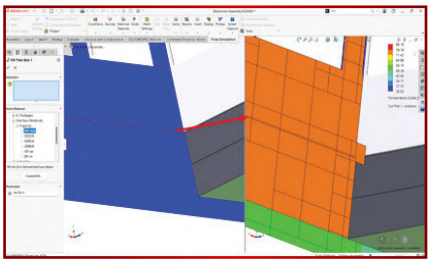


8 EDGE-BASED AIR VENT DEFINITION

- Define Air Vent boundary conditions directly on model edges for realistic venting analysis.
- Apply vents to both Cavity and Cold Runner System domains to better reflect mold behavior.

Benefits

Improve simulation realism by defining Air Vent boundary conditions directly on model edges.

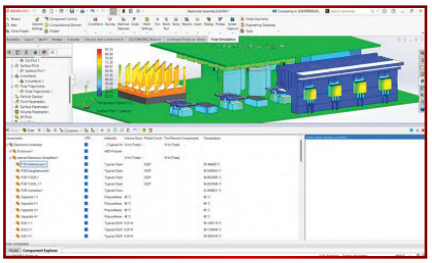


9 FILL THIN SLOT FEATURE

- Fill thin gaps automatically with specified materials for more realistic thermal modeling.
- Simulate real-world assemblies accurately by applying userdefined thickness thresholds.

Benefits

Capture heat transfer paths more precisely, especially in tightly packed or glued components.



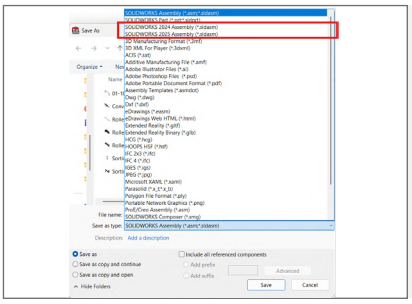
10 COMPONENT EXPLORER: NEW COLUMNS

- View a summary of all component temperatures and surface sources directly within the Component Explorer.
- Enable faster thermal assessment at a glance.

Benefits

Identify overheating components or imbalanced heat sources more efficiently.

PRACTICAL INSIGHTS SOLIDWORKS

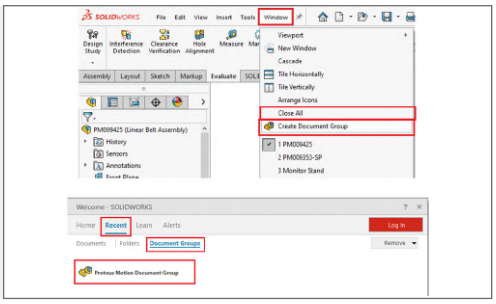


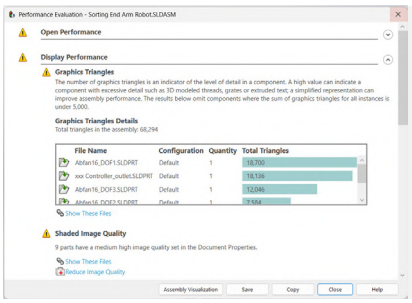
TIP 1 SAVING SOLIDWORKS DOCUMENTS AS A PREVIOUS RELEASE VERSION

You can save your parts, assemblies, and drawings to up to two previous year's version of SOLIDWORKS.

TIP 2 DOCUMENT GROUPS

You can save all open files in SOLIDWORKS as a single document group. This lets you open all the files saved in that group at once.



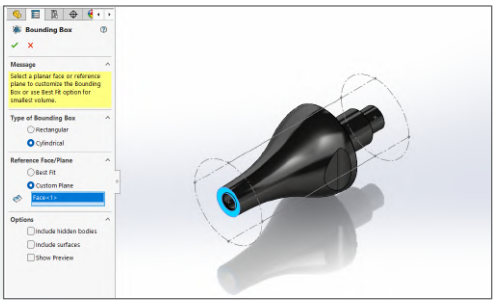


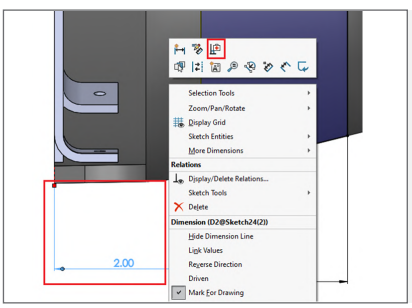
TIP 3 GRAPHICS TRIANGLE AND FACE COUNT FROM PERFORMANCE EVALUATION TOOL

Helps you determine the model complexity and predict the impact on performance, directly from the Performance Evaluation tool.

TIP 4 CYLINDRICAL BOUNDING BOXES

You can create cylindrical bounding boxes that are useful for bodies with cylindrical geometry such as rotational, circular, or turned parts.





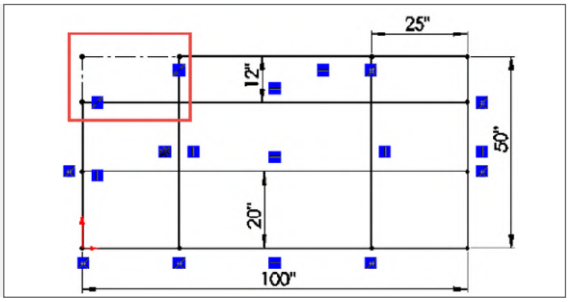
TIP 5 AUTO-REPAIR SKETCH DIMENSIONS OR RELATIONS

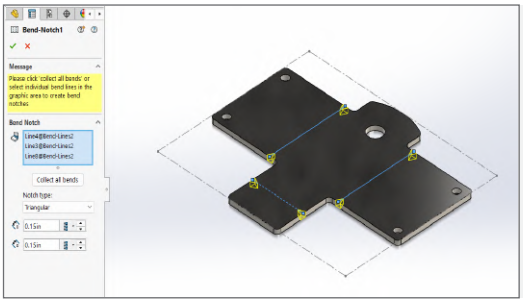
Automatically find and resolve dangling dimensions or relations with just a single click.

TIP 6

KEEP TRIMMED ENTITIES AS CONSTRUCTION GEOMETRY

You can convert trimmed entities into construction geometry or ignore construction geometry when trimming. This improves the handling of construction geometry for 2D and 3D sketches.





TIP 7

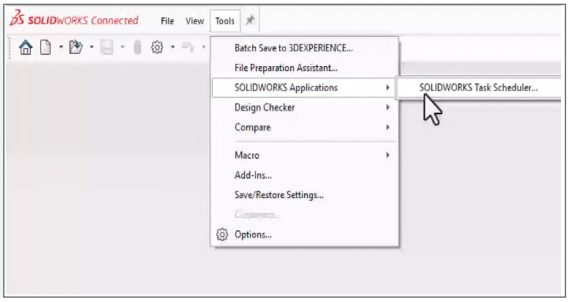
SHEET METAL BEND NOTCHES

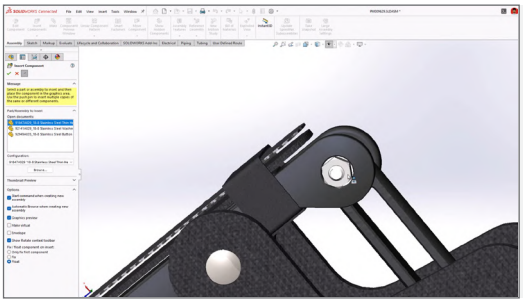
Use the new bend notch feature to create visible marks across bends. In manufacturing, bend notches help manufacturers determine where to put the press brake.

TIP 8

TASK SCHEDULER WITHIN 3DEXPERIENCE SOLIDWORKS

Initiate Task Scheduler from within SOLIDWORKS User Interface to run scheduled tasks in the background, even when the workstation is unattended.





TIP 9

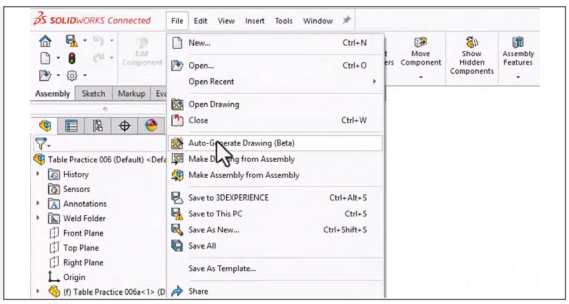
AI-BASED AUTOMATIC FASTENER RECOGNITION AND ASSEMBLY

Auto-detects non-toolbox fasteners (e.g. custom or outsourced bolts, nuts, washers) and automatically assemble them into position upon insertion — no manual mates needed.

TIP 10

AUTOMATIC GENERATIONS OF DRAWINGS

Leverage the power of AI to automatically generate drawings form parts and assemblies using 3DEXPERIENCE SOLIDWORKS.



PRACTICAL INSIGHTS DRAFTSIGHT

	A	B	C	D
1	ITEM	DAY	MONTH	YEAR
2	1	12	JANUARY	2022
3	2	13	FEBRUARY	2023
4	3	14	MARCH	2024
5	4	15	APRIL	2025

TIP 1 AUTO-FILS TABLE CELLS

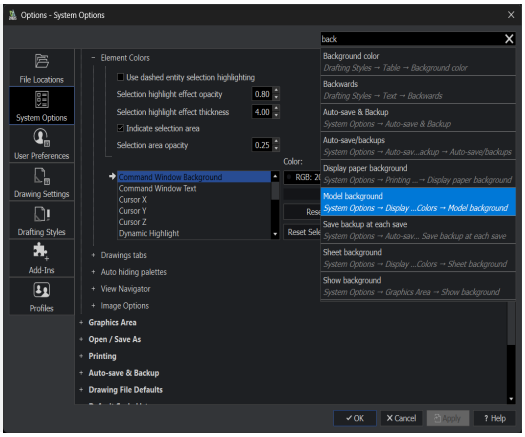
Auto-fill is useful when you want the data in a logical or repetitive order in the adjacent cells of a table. The data includes dates, sequential numbers, days of the week, months etc. To access tables:

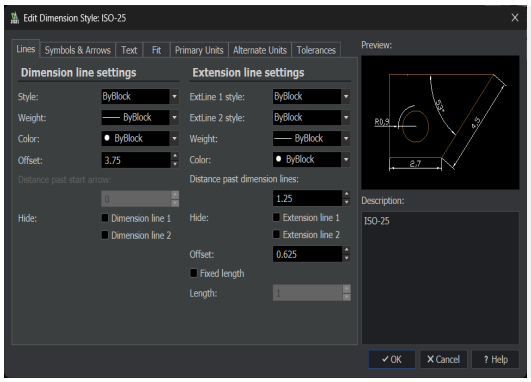
- On the ribbon, click Annotate > Table > Insert.
- On the menu, click Draw > Table.
- Enter TABLE in the command window.

TIP 2 DYNAMIC SEARCH IN AN OPTIONS DIALOG BOX

The search functionality in the Options dialog box is more intuitive and user friendly, ensuring that you find options quickly. In the Search box of the Options dialog box, start to enter a term or system variable name to see a list of options containing the string that you entered. Relevant options appear in a list. You can click an option to go directly to the specified option. To use the dynamic search in the Options dialog box:

- On the ribbon, click Manage > Customisation > Options.
- On the menu, click Tools > Options.
- Enter OPTIONS in the command window.





TIP 3 DIMENSIONS STYLES DIALOG BOX

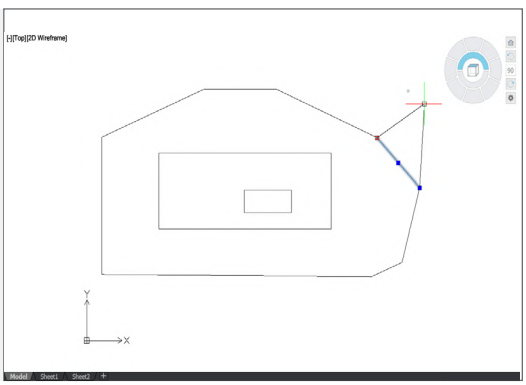
The Dimension Styles dialog box is simplified for editing Dimension Styles. When you edit Dimension Styles, the user interface more closely resembles the other 2D CAD interface. This ensures a smoother transition for users migrating from 2D CAD to DraftSight. To access the Dimension Styles dialog box:

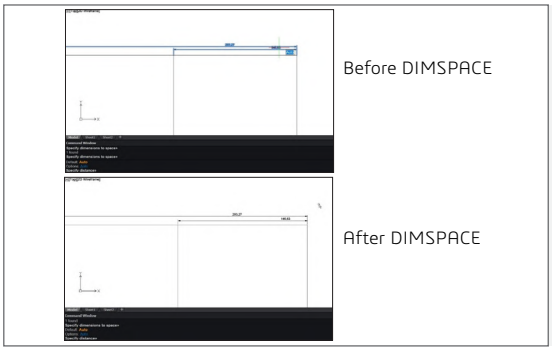
- On the ribbon, click Annotate > Dimension > Dimension Style.
- On the menu, click Format > Dimension Style.
- Enter DIMSTYLE / DIMENSIONSTYLE in the command window.

TIP 4 EDITING CLIPPED EXTERNAL REFERENCES AND BLOCKS

When you clip a block or an externally referenced (xref) drawing, you can resize or edit their boundaries with grips. In earlier releases, you had to recreate the clip each time you resized or edited the boundaries. This makes it easier to isolate a specific entity or area from the block or xref drawing to display in the graphics area. To edit clipped external references and blocks:

- On the ribbon, click Insert > Reference > Clip > Reference.
- On the menu, click Modify > Clip > Reference.





TIP 5

MANAGING SPACING BETWEEN DIMENSIONS

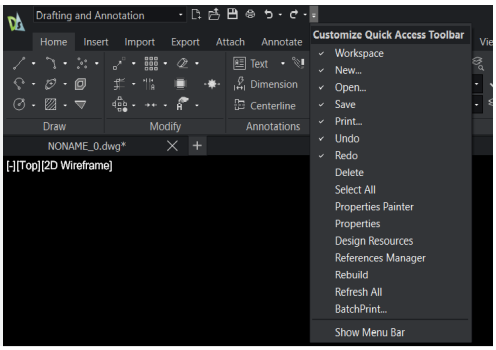
You can use the DIMSPACE command to manage the spacing between dimensions in DWG files. This ensures precision, clarity, and design consistency in drawings. With the DIMSPACE command, you have greater precision and can spend less time on manual adjustments. The DIMSPACE command is similar to 2D CAD functionality for drawing dimensions, so it is easy to learn if you are familiar with 2D CAD.

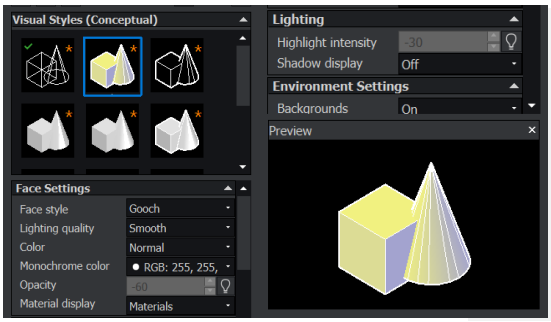
TIP 6

MENU BAR VISIBILITY

You can use the ribbon and menu bar simultaneously in the user interface. The Customise Quick Access Toolbar functionality switches the menu bar visibility. To specify the MENUBAR visibility, do one of the following:

- On the ribbon, click Customise Quick Access Toolbar > Show / Hide Menu Bar.
- On the menu, click Customise Quick Access Toolbar > Show / Hide Menu Bar.
- In the command window, enter MENUBAR





TIP 7

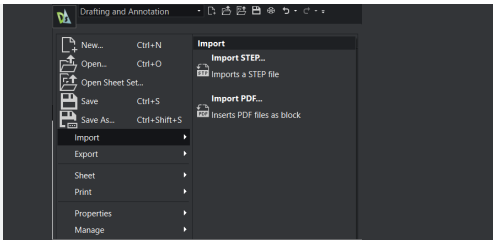
VISUAL STYLES

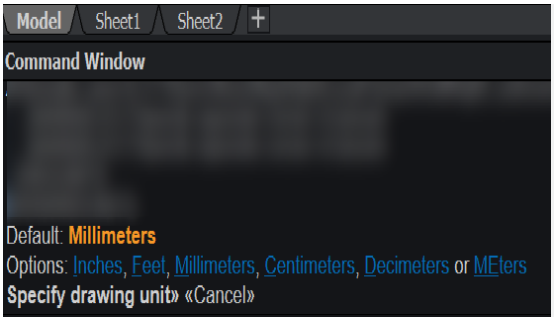
You can represent 3D models with a specified appearance. For example, if the model is in the schematic design stage, you can show the model to a design team in a "sketch appearance" and present it to customers in a "realistic appearance." The different appearances, called Visual Styles, depend on the settings that change the edge, colour, and shading display.

TIP 8

IMPORT STEP FILES

You can use the IMPORTSTEP command to import 3D models from STEP files. You can incorporate STEP file models into drawings.





TIP 9

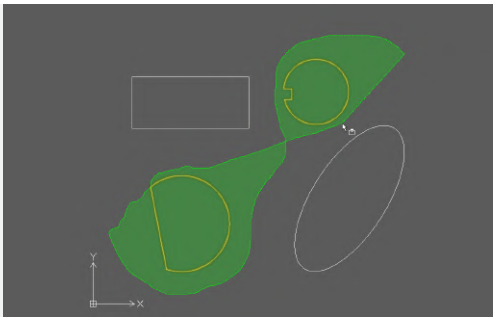
DWGUNITS COMMAND

The DWGUNITS command converts drawings to other unit systems. For imperial and metric units, the DWGUNITS command lets you maintain precision and consistency in various projects. This command enhances the workflow efficiency and ensures that the drawing adheres to project requirements and industry standards.

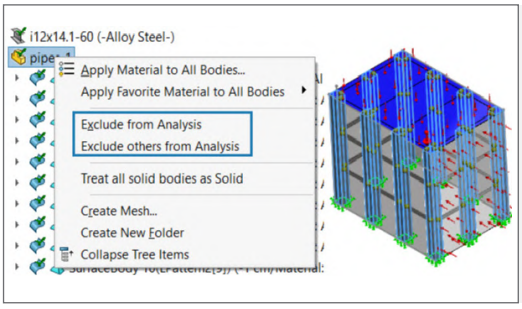
TIP 10

LASSO SELECTION

You can use lasso selection to enhance efficiency and save time. With lasso selection, you can move the pointer around an area to specify and select entities in an irregularly shaped contour. This method helps you select complex groups of entities that do not have standard rectangular boundaries. It simplifies the workflow and improves productivity.



PRACTICAL INSIGHTS SIMULATION



TIP 1

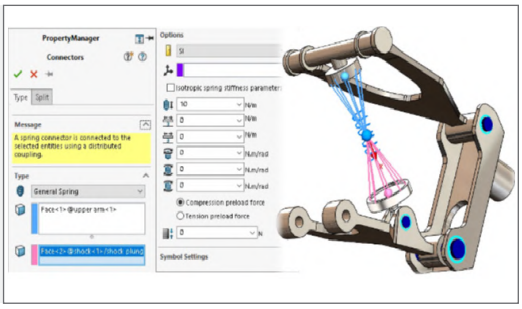
EXCLUDE BODIES FROM ANALYSIS

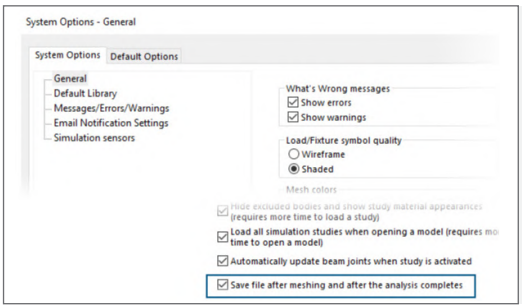
Multiple bodies can be excluded from analysis – a significant time saver when working with large analysis where not all components are relevant to the simulation study.

TIP 2

GENERAL SPRING CONNECTOR

You can specify a general spring connector between flat, nonflat, and concentric cylindrical surfaces. The general spring connector uses distributed coupling to establish an enhanced spring connector formulation that improves the performance and accuracy of the simulation study.





TIP 3

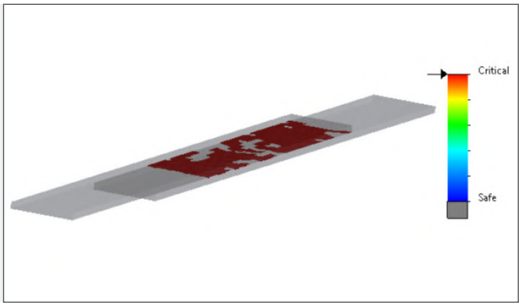
AUTOMATICALLY SAVE FILE AFTER MESHING AND ANALYSIS COMPLETES

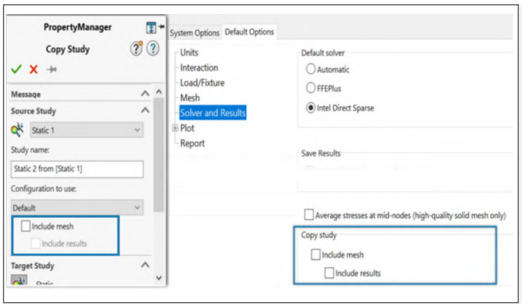
You can turn on the option to automatically save a model file after meshing and after the completion of analysis. This prevents data loss in case of unexpected system crashes or power outages.

TIP 4

CONVERGENCE CHECK PLOT

The Convergence Check Plot detects regions of the model where the solver has encountered contact convergence issues.





TIP 5

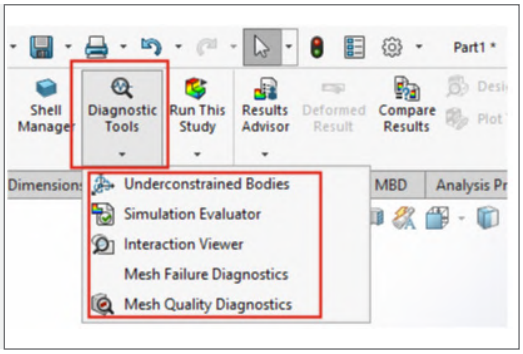
INCLUDE/EXCLUDE MESH AND RESULTS WHEN COPYING FEA STUDIES

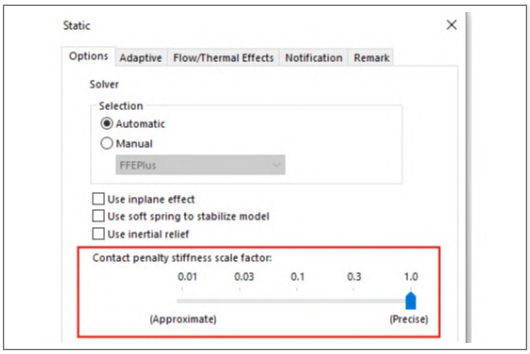
SOLIDWORKS gives you flexibility in your workflow where you can choose whether to include or exclude mesh and results when copying your FEA studies.

TIP 6

DIAGNOSTIC TOOLS FLYOUT MENU

Easily access all of your favourite Diagnostic Tools in one place from the new Diagnostic Tools Flyout Menu in the Command Manager.





TIP 7

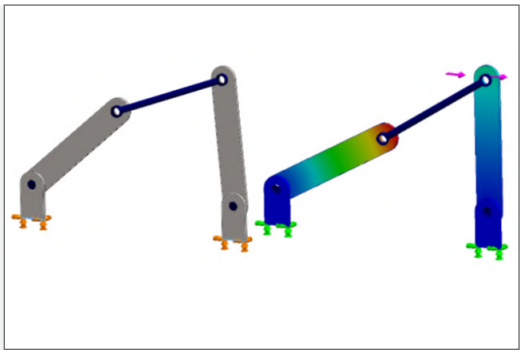
PENALTY STIFFNESS CONTROL FOR CONTACT INTERACTION

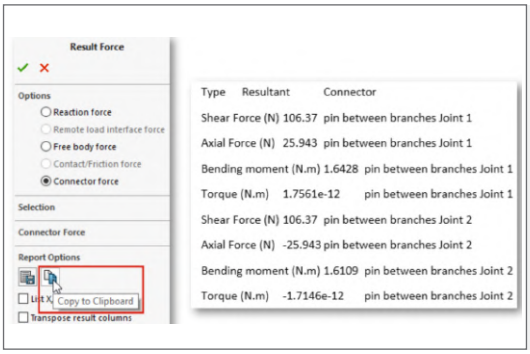
You can specify a scale factor for the penalty stiffness for contact that is used in linear static studies. SOLIDWORKS Simulation uses a default scale factor of 1.0, however, you may select a lower scale factor to obtain an approximate solution faster to assess design iterations and the overall behaviour of a model.

TIP 8

LINKAGE ROD CONNECTOR

The Linkage Rod connector can be specified between cylindrical faces, circular edges, or vertices, to model the behaviour of connecting rods. The Linkage Rod connector is available in all simulation studies including linear, nonlinear, and dynamics studies.





TIP 9

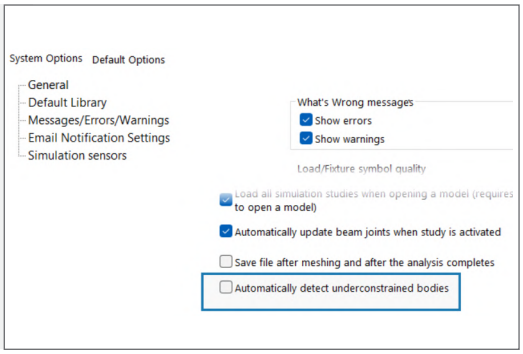
COPY TABULAR SIMULATION RESULTS TO CLIPBOARD

You can copy tabular simulation results displayed inside PropertyManager to the clipboard and paste the copied data from the clipboard into a Microsoft Excel or Word document.

TIP 10

AUTOMATIC DETECTION OF UNDERCONSTRAINED BODIES

The Automatically Detect Underconstrained Bodies is useful to identify bodies that are not sufficiently constrained during simulation and can exhibit translational or rotational rigid body modes, before the solver completes. When the solver detects rigid body modes, you have the option to continue with the solution, or stop the solution and review the rigid modes using the under-constrained Bodies tool.



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- On-site Support
- Technology Day
- Technology Summary & Consultation

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- SOLIDWORKS CAM Standard
- SOLIDWORKS Visualize Standard

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The journey of a thousand miles Begins with one STEP

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We think of customer engagement like a dance. It takes two to tango and perfect the dance.

We are here to help you get back in step so WE will stay in the dance for a longer time.

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Use the latest & updated SOLIDWORKS. Get the certificate to increase your credentials.

DO IT RIGHT

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- Training Certification - CSWP Assessment by the expert

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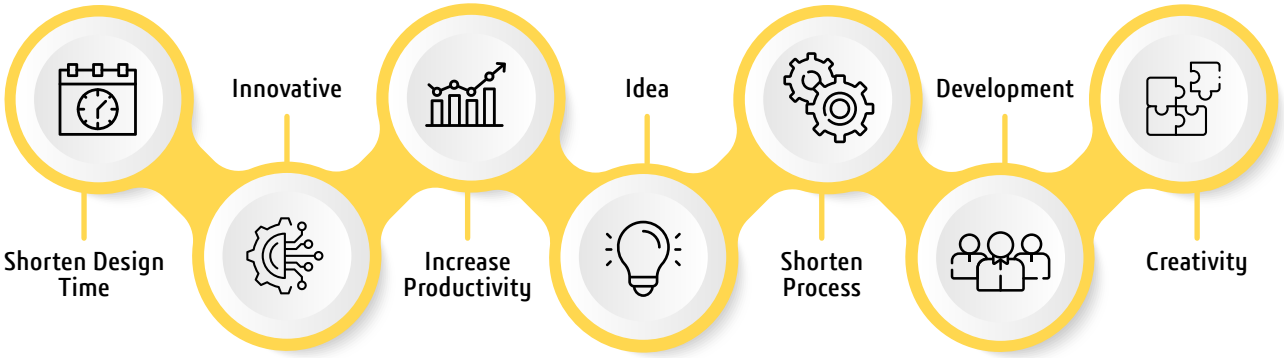
UNLIMITED ACCESS IME WIKI

(Online tutorial, guideline & support)
MySolidWorks (Online courses, forum)

IME INTERX PRODUCTIVITY TOOLS

Nobody Does Engineering Design Like We Do



STEP'S Reward
+6013-664 3635
talk2us@cadcam.com.my

From Concept to Creation : How SOLIDWORKS Transforms SMC Automation's Engineering

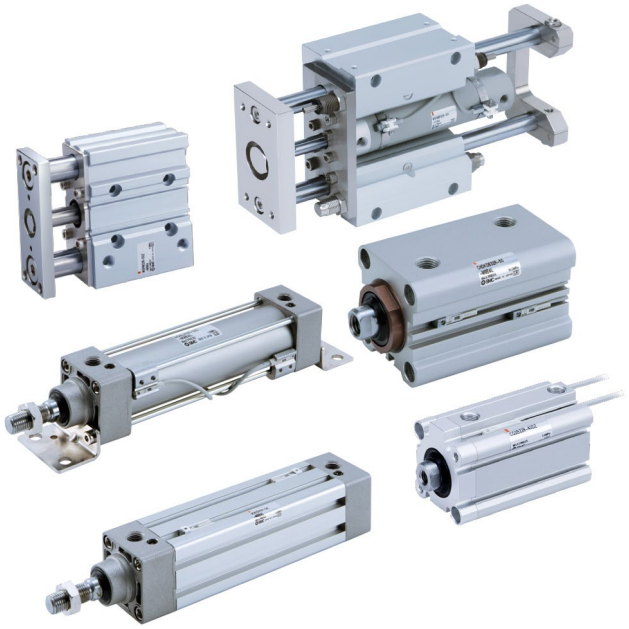
Company Background

Established in 1978, SMC Automation (Malaysia) Sdn. Bhd. has grown into a trusted provider of automation solutions, specialising in pneumatic components, chillers, and sensors. Over the years, the company has earned a strong reputation for reliability, innovation, and customer-focused service, supporting industries as diverse as food and beverage, electronics, and manufacturing.

As part of the global SMC Corporation headquartered in Japan, SMC Malaysia is backed by an international network spanning more than 80 countries and regions. This global presence allows the company to combine world-class technology and resources with local expertise, ensuring customers receive high-quality products and tailored solutions that drive industrial efficiency.

Engineering for a Growing Demand

As SMC's customer base expanded, thus did the complexity of its projects. Each industry brought unique requirements, often demanding intricate designs and rapid turnaround. For the engineering team, this meant balancing precision with speed while maintaining the flexibility to adapt designs across diverse applications. To sustain its growth and maintain its reputation for reliability, SMC looked for a design platform that would not only accelerate development but also strengthen collaboration across teams and provide the flexibility needed to serve a dynamic industrial landscape.



SOLIDWORKS:
The Catalyst for Smarter Design

Partnering with **IME** since 2014, SMC introduced **SOLIDWORKS** into its engineering department as the foundation for design work. With its powerful 3D modelling capabilities, SOLIDWORKS enables engineers to create accurate representations of pneumatic systems and automation components, while managing complex assemblies with ease. The ability to visualise how multiple parts fit and function together allows the team to detect potential issues early and make adjustments quickly to meet customer requirements.

This shift streamlined workflows, reduced reliance on costly physical prototypes, and shortened the overall development cycle. Equally important, SOLIDWORKS enhanced communication across departments — empowering engineering, production, and sales teams to collaborate seamlessly through shared digital models and technical data.

> "With IME's strong local presence, support is always within reach. That reliability has made them a trusted partner for us."
>
> **Mr. Yong KS**
> *Engineering Supervisor.*

Steamlined Design for Greater Accuracy

With SOLIDWORKS Premium, SMC can deliver solutions to customers faster than ever. Its integrated tubing routing and simulation features help save valuable design time and identify potential issues before production. By streamlining the entire process—from 3D modelling to performance testing—the team reduces rework and improves accuracy.

This efficiency not only enables SMC to respond quickly to customer demands but also reinforces its commitment to delivering reliable, high-quality solutions that meet the evolving needs of the industry.

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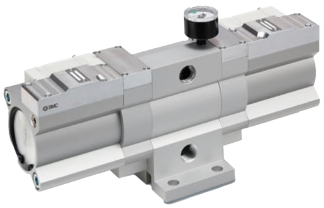
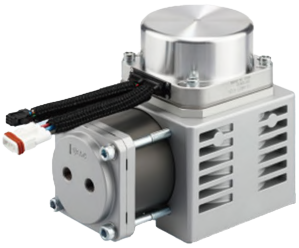
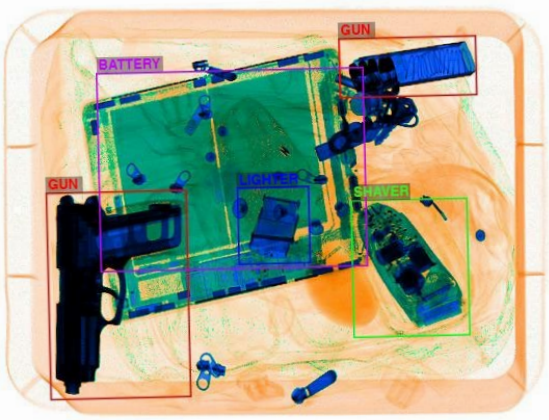




Vita Detection :
Driving Efficiency and Reliability in Security Technology

Company Background

Headquartered in Canada, Vita Detection has been a pioneer in 3D Perspective X-Ray security systems since 2005. Renowned for innovation, quality, and reliability, Vita Detection has consistently set the standard in global security. The company introduced several industry firsts, from integrating precious metal detection with X-Ray systems to launching the world's first machine-learning-powered electronic media detection solution for loss prevention. Its proprietary XR-AI™ and VITA Sentinel™ software, combined with remote monitoring and servicing capabilities, continue to set new benchmarks in threat detection.



Today, Vita Detection's scanners serve airports, railways, and other critical environments worldwide, delivering sharper imaging, faster assessments, and smarter analytics.

Engineering for Growth and Scalability

As Vita Detection expanded across Asia and other global markets, customer demand grew rapidly. At the same time, the increasing complexity of new products required faster workflows and more efficient design management.

With multiple projects running at the same time, engineers initially relied on PDF drawings to review assemblies. While workable at first, this approach became limiting as products grew more sophisticated. A single design issue could take up to a week to resolve, slowing progress and making it difficult to manage projects at scale. To keep pace with growth, the team needed a more effective way to visualise components in 3D, collaborate seamlessly, and refine designs with greater speed and accuracy.

Streamlining Design with SOLIDWORKS

Vita Detection implemented SOLIDWORKS to move from static PDF drawings to an interactive 3D CAD platform. The shift enabled engineers to review and refine complex components more efficiently, keeping projects on track and accelerating delivery.

The platform's intuitive, user-friendly interface made it easy for the team to adapt, even for those without extensive CAD backgrounds. This lowered barriers to adoption and ensured that everyone could contribute effectively from the start. At the same time, SOLIDWORKS enabled designs to be created with manufacturing in mind, allowing products to transition smoothly from concept to production without unnecessary rework.

By improving coordination across teams and streamlining workflows, SOLIDWORKS has already helped Vita Detection enhance product performance, shorten development cycles, and strengthen its ability to scale operations effectively—all within the first year of adoption.

> IME is friendly and approachable, with more than one person available to help at the same time. Working with them feels like a casual conversation, making complex solutions easy to understand.
>
> **Mr. Yogeswaran**
> *Mechanical Engineer*

Delivering Measurable Results

The switch to SOLIDWORKS has brought clear improvements. Product quality has **increased by more than 40%,** with potential to reach 75% through continued optimisation. Development cycles are shorter, enabling the team to introduce innovations more efficiently and respond quickly to customer needs.

One of the most notable gains has been in problem resolution: design issues that previously delayed progress for a week can now be **addressed within a single day.** This agility allows Vita Detection to manage multiple projects simultaneously without compromising quality. Customers benefit from smarter, more reliable scanners, while internal teams experience higher productivity and innovation. By achieving these results in such a short time, Vita Detection has **established** a solid foundation for **sustained growth,** demonstrating how the right tools and partnerships can **accelerate transformation** at scale.

Redefining Water Systems : Howern Wasser's 3D Design Transformation

Company Background

Howern Wasser, founded in 2014, is a Malaysian engineering company specialising in pure water systems. Serving industries where precision and reliability are paramount—including pharmaceuticals, medical devices, semiconductors, solar, oil and gas, and petrochemicals—the company goes beyond designing high-quality water systems to support wastewater treatment and reclamation, helping clients reuse and recycle water efficiently.

Operating from Selangor and Penang with a growing presence across Asia, Howern Wasser has earned a reputation as a trusted regional leader, combining sustainable design practices with innovative technologies to meet the evolving needs of its clients.

Scaling Up with Complexity

As projects grew larger and more complex, traditional 2D drawings—while long serving the team well—offered a limited perspective for clients, particularly those without engineering backgrounds. Visualising how systems would fit into real spaces became increasingly important.

Efficiency was another critical factor. Without 3D design, projects often required up to 30% spare capacity in fabrication to accommodate adjustments, adding both time and cost. With multi-million-pound projects becoming the norm, and the demands for precision, optimised resources, and faster delivery on the rise, upgrading to 3D modelling emerged as a natural and necessary step.

Turning Drawings into 3D

To meet these evolving demands and continue delivering precise solutions, Howern Wasser adopted SOLIDWORKS 3D modelling. The shift enabled the creation of highly detailed, accurate models that clients could easily visualise and explore, providing a clearer understanding of system layouts than traditional 2D drawings.

By presenting systems in a three-dimensional format, the team could demonstrate how each component fit into the overall space, highlight key design features, and identify potential adjustments before fabrication. This approach allowed engineers to anticipate design clashes, optimise space usage, and make modifications earlier in the process, reducing rework. Discussions with clients became more interactive, alignment on expectations improved, and project planning and execution became more streamlined, ensuring projects progressed more smoothly from concept to installation.

> IME is more than a solution provider; they are a supporting partner in our growth journey, helping us deliver greater value to our customers
>
> **Mr. Regis Bernard**

Smarter Design, Faster Results

Even in a brief period, the move to 3D design delivered measurable gains—reducing errors by **30–40%** through precise modelling and accurate bills of materials, and cutting fabrication costs by around **20%** by eliminating excess spare parts. Project timelines also improved by **20–25%**, enabling systems to be fabricated and delivered more efficiently. Clients now benefit from clearer visualisations, enhancing communication and strengthening trust in the company's capabilities. By embracing 3D modelling early, Howern Wasser is well-positioned to take on both SME and large-scale projects, where 3D design is rapidly becoming the industry standard.

Building Strong Foundations with Innovative Design

Company Background

From powering city streets to enabling modern communications, PMW Group of Companies has long shaped everyday infrastructure. Established as a trusted manufacturer of piles, poles and monopoles, the company serves both local and international markets with a diverse portfolio—from electric distribution poles and wiring supports to telecommunication monopoles and decorative lighting poles, including signature designs seen around mosques and public spaces.

Beyond finished products, PMW also specialises in the design and production of moulds and machinery for concrete product's manufacturing—from concrete to metalworking—supplying overseas customers with tools that uphold quality and consistency. With its monopole division, the company extends its expertise further by delivering complete solutions with accessories that integrate seamlessly with modern telecommunications equipment.

Rising to Meet Bigger Demands

As PMW expanded to deliver larger and more advanced pole structures, particularly in the telecommunications sector, the company recognised the importance of a design approach that could handle complex assemblies with both speed and accuracy. With bigger projects came higher expectations—driving the need for tools that could streamline workflows and strengthen design precision.

At the same time, PMW placed strong emphasis on equipping its engineering team with the right resources and continuous support, ensuring they could work efficiently, innovate confidently, and meet rising customer demands.

When Precision Meets Innovation

The adoption of **SOLIDWORKS 3D design software** gave PMW the clarity and efficiency it needed to keep pace with growth. Known for its user-friendly interface and powerful assembly management features, the software enabled engineers to quickly identify the source of errors instead of relying on time-consuming trial-and-error corrections. This not only minimised rework but also helped the team maintain accuracy when dealing with large, complex structures like telecommunication monopoles.

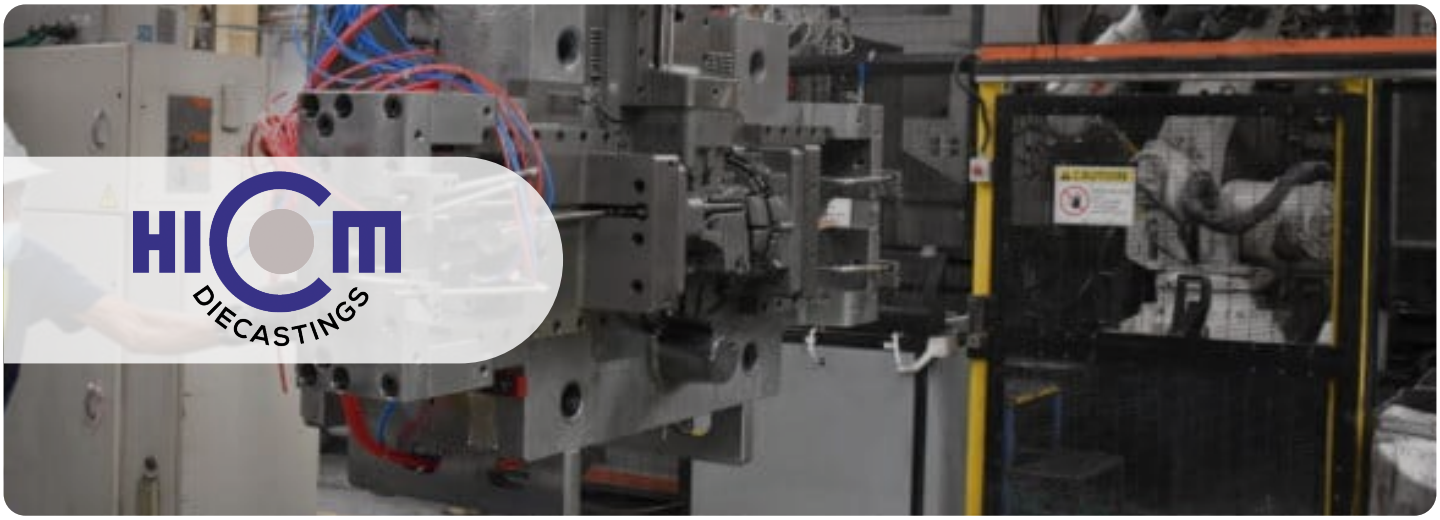
Beyond error detection, **SOLIDWORKS enhanced the entire design process.** Engineers could visualise assemblies in greater detail, test how components fit together, and make adjustments in real time. This intuitive and streamlined approach reduced repetitive tasks, accelerated project timelines, and gave the team more freedom to focus on innovation and delivering high-value solutions to customers.

> IME team is very responsive - always quick to address questions and patient in guidance. They've made a real difference in ensuring smooth adoption and long-term success.
>
> **En. Mohd Faisal bin Ibrahim**
> *Mechanical Engineer*

Results That Speak for Themselves

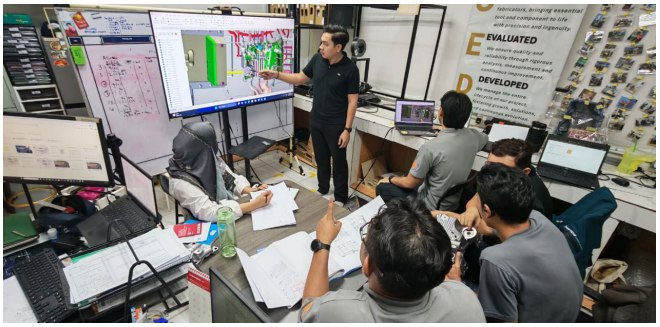
The adoption of **SOLIDWORKS** transformed PMW's engineering operations in measurable ways. Design cycles became **15–20% faster** as errors were detected and resolved with far greater efficiency. With less time spent troubleshooting, engineers could focus on design and innovation, driving a significant boost in productivity. At the same time, enhanced accuracy strengthened confidence in every project, reducing rework and ensuring smoother delivery. These improvements not only elevated daily efficiency but also reinforced PMW's reputation for reliability, positioning the company to drive innovation and strengthen its role in shaping tomorrow's infrastructure.

The Power of Integration: How HICOM Diecasting Reduced Costs and Boosted Efficiency



Company Background

For over three decades, HICOM Diecasting Sdn. Bhd. has been a trusted name in die-casting solutions. Incorporated in 1985 and wholly owned by HICOM Engineering Sdn. Bhd., a subsidiary of DRB-HICOM. HICOM Diecasting Sdn. Bhd. offers clients a cutting-edge combination of technology, technical know-how and a highly-skilled workforce, establishing itself as a leading die casting provider in the region. The company focuses on its core competencies to continuously evolve and shape its vision, driving the industry's future.



Challenges

Building on Strong Fundamentals

The team is well-versed in the fundamental functions of their software, giving them a solid foundation in design. With this expertise in place, they are now eager to explore more advanced tools and integrated solutions unlocking greater innovation, independence in design preparation, and a faster workflow from concept to production.

Accuracy and Quality Concerns

Without stronger digital tools, ensuring design accuracy and consistent die-casting quality was a challenge. Small design errors could lead to production issues, higher rejection rates, and missed opportunities to optimise the process.

Dependence on External Suppliers

For certain advanced and critical design work, the company engaged external suppliers to support project delivery. While this approach provided access to specialised expertise, it also introduced time constraints that occasionally affected project timelines and efficiency.

Enhanced Turnaround & Stronger Credibility

With the adoption of an integrated CAD-CAM workflow, the company is positioned to respond to urgent or ad-hoc projects more quickly and efficiently. This improvement not only increases productivity but also strengthens agility in meeting client needs, further reinforcing their reputation for reliability.

Solution with IME

With IME's support, HICOM Diecasting adopted a fully integrated CAD-CAM solution that transformed the way the engineering team works from design to production. This new ecosystem reduced reliance on external suppliers, empowered in-house expertise, and delivered measurable business value.

An Integrated Workflow from Design to Manufacturing

The company now operates on a complete digital toolset. **SOLIDWORKS Premium** enables advanced 3D modelling and validation, while **SOLIDWORKS Inspection**automates quality checks and **DraftSight** supports 2D drawing needs. Together with **CAMWorks** and **Mastercam**, the team can seamlessly transition from CAD to CAM, allowing faster prototyping, improved accuracy, and stronger quality control. This integration eliminates bottlenecks and prevents costly defects early in the process.

Empowering the Engineering Team

The shift to in-house design and validation has significantly boosted team productivity. Engineers now tackle challenges with greater autonomy, reduce lead times, and contribute more directly to project outcomes. This empowerment has also lifted morale, giving the team confidence and pride in owning the design process rather than relying on external suppliers.

Driving Tangible Business Results

The transformation has delivered clear financial and strategic benefits. By reducing supplier dependency, HICOM Diecasting achieved an impressive 64% cost saving in the die-casting department.

> In Malaysia, there are many software suppliers to choose from, but with IME, I found everything I was looking for in a partner. Working with IME means having their full support, along with the knowledge and software expertise to back us up. My team and I are truly happy to work with IME.
>
> **Ts. Muhammad Faqrul Reduan Abdul Majid**
> *Head of Tooling, Component & Equipment Development (TCED), HICOM Diecasting Sdn. Bhd.*

Driving Precision with Smart Monitoring at LEP Precision Components Sdn Bhd

Company Background

In high-precision manufacturing, even the smallest variation can make or break quality. For LEP Precision Components Sdn Bhd, a zinc die-casting and metal finishing specialist in Shah Alam, plating quality isn't just important — it's essential. Every part that leaves the factory must meet strict standards of reliability and consistency. For LEP's customers, precision is demanded at every stage.

From Die-Casting to OEM Partner

LEP began as a zinc die-casting company and has grown into a trusted OEM partner, offering design-to-assembly solutions. Plating finishing remains its core strength, serving industries where repeatability and cost efficiency are critical. The company's mission is to deliver the highest standards of quality while keeping processes lean and competitive.

The Hidden Costs of Manual Monitoring

Among many tightly controlled processes, plating requires special attention to **pH and temperature control**. These two factors directly affect plating performance, product consistency, and costs. Traditional monitoring methods, including grab sampling, pH test papers, and manual thermometers, provide only periodic readings. Adjusting pH manually requires frequent checks, and even occasional delays can allow levels to drift outside the optimal range.

Temperature control presents similar challenges. Hourly readings are needed to track variations, yet hot and cool spots in the bath can produce inconsistent results, and sudden fluctuations may go unnoticed between checks.

The result is a process prone to undetected variations, inconsistent measurements, and costly rework. As production scales up, these manual methods struggle to keep pace with quality goals, highlighting the need for a more reliable, real-time solution.

How Digital Control Replaced Guesswork

Since 2009, LEP has partnered with the IME Group of Companies - beginning with design solutions that helped mature its product development processes. By 2024, the collaboration had expanded into manufacturing, where LEP sought to further strengthen process control and efficiency. This led to the adoption of SMAC (Smart Monitoring and Control), a system designed to remove the guesswork from critical operations. It continuously tracks pH and temperature in real time, sending instant alerts whenever values move outside the optimal range.

This automation eliminated the need for hourly manual checks and frequent pH adjustments, giving operators **full visibility and control** over the process — even remotely via smartphones or tablets. All data is recorded digitally, enhancing **traceability** for audits and supporting ongoing process improvement. By turning a labour-intensive, error-prone task into a **reliable, data-driven operation,** SMAC ensures consistent quality and efficiency for every batch.

Immediate Results: Higher Quality, Lower Costs

The implementation of SMAC led to a significant transformation in LEP's plating process. Downtime dropped significantly, and plating consistency improved, resulting in a reduction of rejects and rework by around **15–20%**. Waste and operating costs also decreased noticeably.

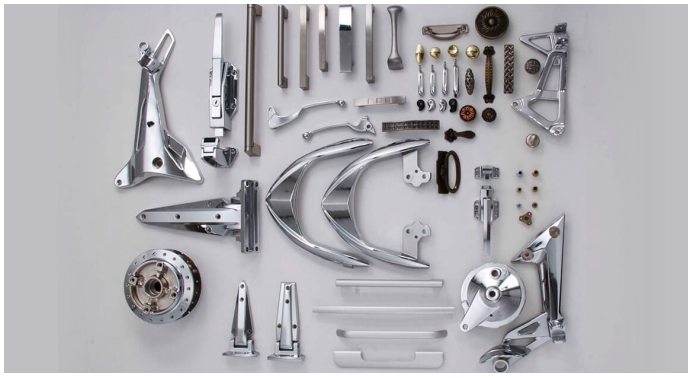
Most importantly, SMAC eliminated the need for hourly manual temperature checks. Real-time digital monitoring now ensures quality control 24/7, audits run more smoothly, traceability is stronger, and operators can focus on production rather than routine monitoring.

> Teksoft provides professional services and has great problem-solving skills. We look forward to future grant projects with other solutions from Teksoft.
>
> **Mr. C. P. Tan**
> *MDE Manager,*
> *LEP Precision Components Sdn. Bhd.*

A Partnership Beyond Technology

For LEP, SMAC wasn't just a tool — it was a transformation. What made the difference was IME and Teksoft's partnership approach, from smooth implementation to ongoing support.

Today, LEP's plating process is smarter, more resilient, and ready for Industry 4.0. The journey proves that precision and innovation truly go hand in hand.



Driving Innovation in Plastic Sanitaryware Manufacturing

Company Background

Since its establishment in 1994, **Prominent Image Sdn. Bhd.** has grown into one of Malaysia's leading manufacturers of plastic sanitaryware. Known for its **Techplas** brand, the company offers a wide range of durable bathroom fittings—including toilet seats, cistern tanks, bottle traps, and shower accessories—trusted for quality and reliability across the local building industry.

While Prominent Image's core customer base remains in Malaysia, its reputation has expanded beyond borders, with products now exported to markets across **Asia, the Middle East, and Africa.** With a clear vision to become the **top choice for Malaysians** and a **globally recognised sanitaryware brand,** the company continues to scale operations while focusing on delivering excellence in both product and service.

Scaling Up with Smarter Systems

As the company expanded, it became clear that existing processes needed to evolve to keep pace with growth - particularly in production monitoring and inventory control. Manual temperature and pressure checks were carried out every two hours by the quality assurance team, a method that worked in earlier years but was no longer scalable. Gaps between checks could affect product consistency and lead to avoidable downtime.

Inventory management also relied heavily on manual logging. Stock counts and order request forms were written by hand, which sometimes resulted in inaccurate data or misplaced records. As order volumes grew, these inefficiencies highlighted the need for a more reliable, integrated system.

To sustain growth and maintain high standards, Prominent Image began seeking smarter, automated solutions that could enhance both production efficiency and supply chain accuracy.

Turning Data into Decisions with IME

To tackle these challenges, Prominent Image partnered with **IME** to implement a suite of smart manufacturing solutions — **CIMCO, Parameter Monitoring, and MAPS** — that would digitalise production and inventory processes across the factory floor.

With **CIMCO software and real-time parameter monitoring,** the company now has complete visibility into machine performance. The system automatically calculates **Overall Equipment Effectiveness (OEE)** by tracking availability, performance, and quality, giving users a clear picture of efficiency at a glance. Real-time monitoring of critical parameters such as temperature ensures accurate insights, while immediate alerts allow technicians to take fast corrective action to protect product quality and minimise downtime.

On the materials side, **MAPS** digitised inventory tracking. Previously dependent on handwritten records, the system now provides **live updates on material usage and stock levels**, with data centralised and easily accessible. This has led to greater accuracy, better planning, and significantly fewer inventory-related issues.

> What makes IME stand out is their ability to customise solutions according to our requirements while keeping costs affordable.
>
> **Alex Low**
> *General Manager,*
> *Prominent Image Sdn. Bhd.*

Tangible Results, Strategic Gains

The digital shift has delivered clear benefits. Prominent Image has achieved approximately 8**% cost savings per machine** on monthly production, thanks to better machine oversight and reduced rejection rates. Inventory accuracy has improved around 95%, helping to minimise waste and optimise material and production planning.

These operational improvements have had a direct impact on customer satisfaction. With more consistent product quality and dependable delivery timelines, the company is better equipped to serve both local and international clients.

Internally, the transformation has fostered a culture of data-driven decision-making and continuous improvement. The company is now well-positioned to expand into new markets and scale production without sacrificing quality or efficiency.

“We believe there’s still plenty of opportunity to work together, especially as we look to equip our remaining machines with additional sensors,” says Alex Low. “This will reduce manual labour and provide even more precise data.”

As Prominent Image continues its **digital transformation**, this **forward-looking approach** ensures the company remains **competitive and resilient** in a rapidly evolving industry.

Accelerating Quality Inspections in Aerospace: How Latécoère Digitised with 3DEXPERIENCE®

Company Background

Founded in 1917, Latécoère is a Tier 1 partner to major aircraft manufacturers such as Airbus, Boeing, and Dassault Aviation. With over a century of aerospace experience, Latécoère is globally recognised for its expertise in aerostructures and interconnection systems. The company operates in 13 countries and is known for driving innovation, particularly in the design and manufacture of fuselage sections, doors, and electrical wiring systems for civil and military aircraft.

Latécoère is also committed to staying on the cutting edge of aerospace manufacturing, continually investing in smart factory technologies and digital transformation to meet the evolving demands of aircraft production and safety.

When Quality Becomes a Bottleneck

As the aerospace sector evolves, so do the challenges that manufacturers like Latécoère must confront. One of the most pressing issues was found deep within the company's inspection processes. Traditionally, quality checks relied heavily on manual procedures, paper-based documentation, and time-consuming visual inspections. While thorough, these methods were no longer sustainable at the scale and speed modern aerospace production demands.

Every component Latécoère manufactures must meet rigorous safety and compliance standards, with zero margin for error. Yet, with traditional workflows, inspections became a bottleneck—slowing production, increasing the potential for mistakes, and making it difficult to access real-time quality data. These inefficiencies not only affected productivity but also placed strain on skilled inspectors, whose time was often consumed by administrative tasks instead of value-added quality assurance.

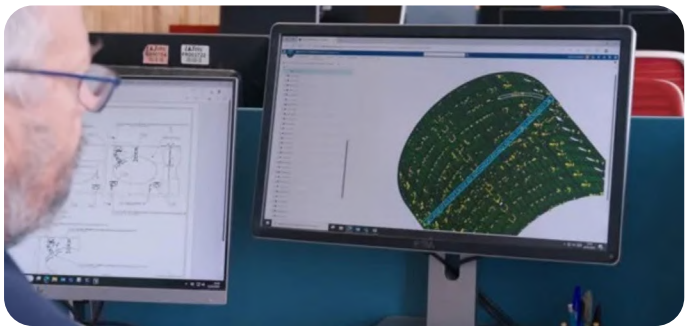
A Digital Leap Forward

In search of a smarter, faster, and more connected approach to quality inspection, Latécoère turned to the 3DEXPERIENCE® platform from Dassault Systèmes. The company implemented DELMIA applications within the platform to transition from manual inspection procedures to a fully digital, model-based system.

This shift was not simply about introducing new software—it was about transforming the way quality was managed across the organisation. With 3DEXPERIENCE, Latécoère integrated its inspection processes directly with design and manufacturing, creating a closed-loop environment where every step could be virtually planned, executed, and monitored.

Now, inspectors use 3D models to guide their checks, receiving precise digital instructions tailored to each part or assembly. These instructions are generated automatically from the original design, ensuring consistency across teams and locations. The system also captures inspection data in real time, enabling instant feedback and complete traceability from design to delivery.

> With DELMIA Augmented Experience we are reducing inspection time by 20% to 30% and it makes our inspection methods more reliable.
>
> **Grégory Marrocco**
> *Industrial System Digitalisation Manager,*
> ***Latécoère***



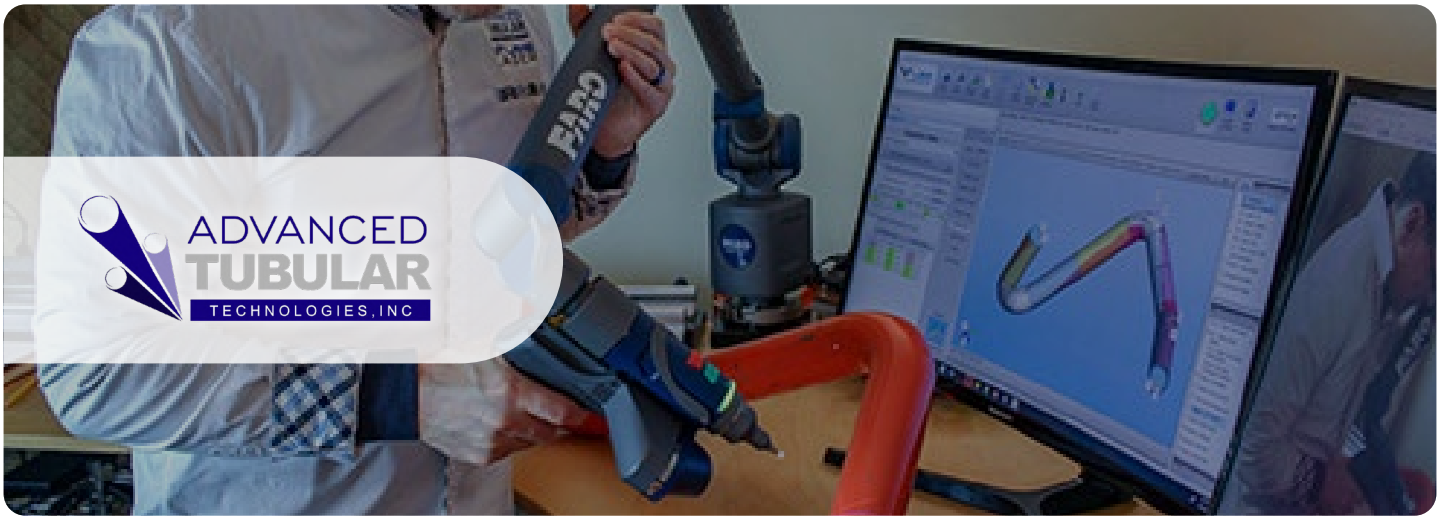
Results That Speak for Themselves

The impact of this digital transformation has been nothing short of remarkable. Latécoère has significantly reduced the time required for inspections, in some cases cutting it by as much as half. By eliminating paper documentation and automating key processes, the company has freed up inspectors to focus on higher-value tasks—boosting both accuracy and efficiency on the shop floor.

Training new personnel has also become easier. With intuitive, step-by-step digital guidance, new inspectors can get up to speed faster, reducing onboarding time and minimising errors. Perhaps most importantly, the shift has given Latécoère complete visibility into its quality operations. Every action is recorded, every outcome is traceable, and every issue can be addressed proactively—enhancing compliance and readiness for audits.

This transformation is more than a technological upgrade; it is a strategic move that positions Latécoère at the forefront of digital aerospace manufacturing. By partnering with Dassault Systèmes and leveraging the 3DEXPERIENCE platform, the company has ensured that its commitment to quality not only meets today's standards but is future-ready.

Precision in Minutes: How VTube-LASER and FARO® Quantum Arm Are Transforming Tube Fabrication



Company Background

Advanced Tubular Technologies, Inc., based in Michigan, specialises in software solutions for the tube fabrication industry. With a focus on precision, automation, and efficiency, the company has developed tools that streamline complex measurement and bending processes. Its flagship product, VTube-LASER, is now used by manufacturers across the aerospace, automotive, hydraulic, shipbuilding, and defence sectors.

The company's customer base includes high-profile clients such as Delta Air Lines, British Airways, United Airlines, and multiple branches of the US military. Advanced Tubular's software plays a central role in enabling these manufacturers to maintain strict dimensional tolerances and high productivity levels. The development of VTube-LASER reflects the company's mission to modernise tube measurement standards and set new benchmarks for speed, accuracy, and integration.

Outdated Methods, Unacceptable Costs

Prior to the adoption of laser scanning technologies, tube inspection and correction were traditionally handled using physical gauges, jigs, and fixtures. In this legacy process, operators bent a tube, placed it into a fixture to check for fit, and manually determined necessary corrections. Adjustments required trial and error, often consuming several hours per part.

This manual approach introduced variability, delayed production timelines, and increased material waste. It also placed a heavy reliance on operator experience and judgement, making repeatability a persistent challenge. As manufacturing demands grew more complex, and as precision and lead-time expectations tightened, these older processes became a limiting factor in operational efficiency.

A Smarter Approach to Precision

VTube-LASER, developed by Advanced Tubular Technologies, pairs with the FARO® Quantum Arm to replace manual tube inspection with fast, real-time laser scanning. It uses model-based definition (MBD) to import STEP files, analyse geometry, detect deviations, and send correction data directly to tube bending machines—reducing set-up time and improving first-part accuracy.

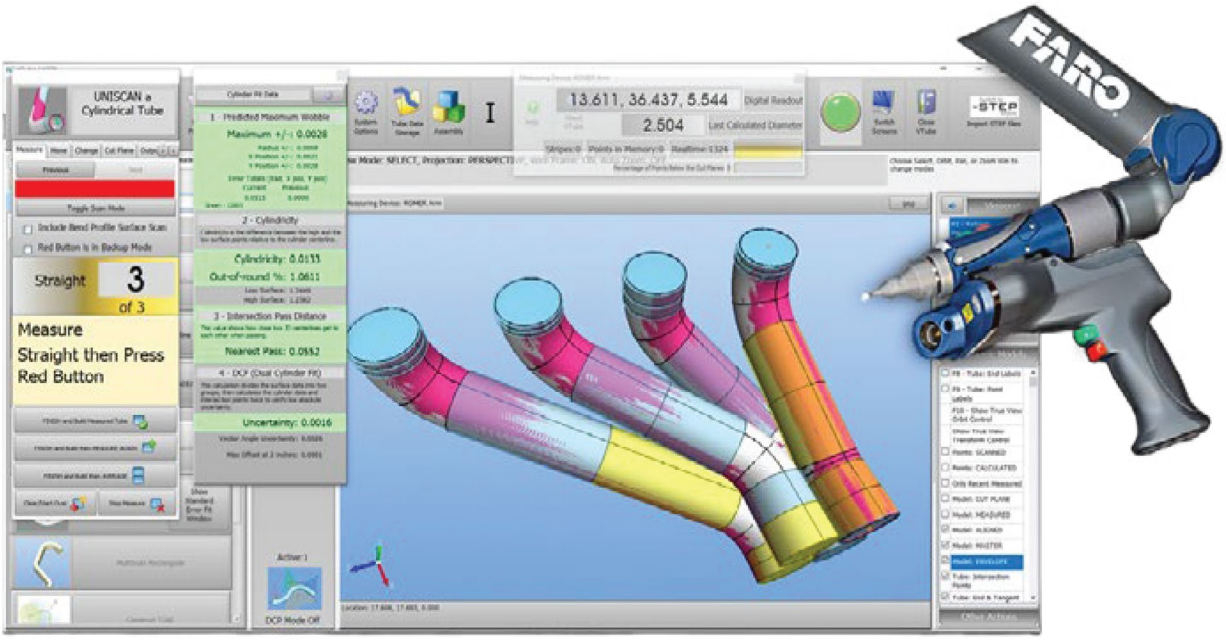
With built-in Benderlink™ technology, the system connects to a wide range of CNC benders, eliminating manual data entry and minimising errors. It also supports reverse calculation for reverse engineering. Designed for ease of use, VTube-LASER streamlines the workflow from scan to correction in just a few steps.

> I have a great working relationship with FARO; I value that relationship. It's been a very positive experience and they've provided a lot of support and enthusiasm. They're very knowledgeable people.
>
> **Michael Cone**
> *Owner,*
> *Advanced Tubular Technologies Inc.*

From Hours to Minutes: The Measurable Impact

The VTube-LASER and FARO® Quantum Arm system reduces tube inspection and correction time from hours to under 15 minutes, enabling faster changeovers, lower labour costs, and increased throughput. It offers superior accuracy and repeatability compared to legacy tools, reducing rework and improving part quality.

The system supports round, square, and rectangular tubing, as well as complex geometries and reverse engineering. Its 3D scanning capabilities also extend to non-tube components such as automotive panels. With immediate ROI, greater efficiency, and seamless machine integration, VTube-LASER delivers a high-speed, data-driven workflow that modernises tube fabrication and enhances competitiveness.



Smart Manufacturing: Your First Steps Toward Transformation

Manufacturing has long been the backbone of Malaysia's economy, contributing nearly 25% of national GDP and employing millions of workers. Yet as global industries advance, local manufacturers face mounting pressures: rising labour costs, skills shortages, increasing demand for customised products, and the need to stay competitive on the world stage.

To meet these challenges, factories across Malaysia are entering a new era of Smart Manufacturing — where connected systems, robotics, and digital intelligence are deployed to boost productivity, strengthen resilience, and build more sustainable operations. Globally, industrial automation is expanding rapidly, driven by the demand for smarter, faster, and safer production. In Malaysia, this momentum is reinforced by the **Industry4WRD policy**, which aims to position the country as a high-value, technology-driven hub.

Surveys reveal that 80% of Malaysian manufacturers view automation as critical to competitiveness, with labour shortages being a major driver for solutions such as cobots and process monitoring. Yet cost and skills gaps remain the biggest barriers — highlighting the need for practical, phased approaches to adoption.

From Visibility to Productivity

The path to smart manufacturing rarely starts with sweeping changes. It begins with visibility. Many manufacturers still face blind spots: machines running idle, untracked downtime, or bottlenecks that only surface too late. With the right monitoring system, managers gain real-time insights into what's happening on the shop floor — creating a foundation for better decisions and improved productivity.

Next comes precision. Manual checks often lead to inconsistencies and missed defects. Automated inspection ensures accuracy, repeatability, and confidence in quality — freeing skilled workers to focus on higher-value tasks.

Then comes efficiency. By connecting processes and streamlining workflows, automation reduces waste, eliminates unnecessary steps, and ensures every action adds value.

Finally, there's productivity. Collaborative robots (cobots) take on repetitive, physically demanding jobs while working safely alongside people. The result? Faster output, safer workplaces, and a workforce that can channel energy into innovation rather than fatigue.

Building Smarter Factories, Step by Step

For many, the idea of "smart automation" feels daunting — conjuring images of fully automated, lights-out factories with huge investments. But in reality, transformation happens one step at a time:

- **Start with machine monitoring** to uncover hidden inefficiencies.
- **Adopt automated inspection** to raise consistency and reduce errors.
- **Integrate workflows** to streamline production and connect processes.
- **Deploy cobots** to handle repetitive, labour-intensive tasks.
- **Expand with predictive systems** to forecast performance and prevent downtime.

Each step delivers value on its own, but together, they transform factories into smarter, more connected environments. Just as importantly, this phased approach reduces financial burden, minimises operational risk, and builds trust among operators and management alike.

IME's Role in Empowering Transformation

At IME, we believe smart manufacturing should be practical, accessible, and sustainable for companies of every size. Our role goes beyond supplying technology — we act as a partner, guiding manufacturers through each stage of their transformation.

We enable companies to bring visibility into their operations through real-time monitoring, strengthen quality and consistency with automated inspection, and improve efficiency by streamlining workflows and integrating processes. We also help boost workforce productivity with automation that complements people rather than replaces them, while enabling leaders to unlock insights and foresight with analytics and predictive intelligence for smarter decision-making.

As a solutions provider with decades of experience supporting local industries, IME understands the unique challenges Malaysian manufacturers face. That's why we also focus on building people capabilities — offering training, advisory, and skills development to ensure teams are equipped to adopt, adapt, and grow with these technologies. From design and simulation to additive manufacturing and digital transformation, we empower companies to build long-term capabilities that deliver lasting impact.

By aligning with national Industry4WRD aspirations, IME helps manufacturers not only adopt smart technologies but also future-proof their operations for global competitiveness. Because smart automation isn't only for global giants with big budgets — it's for every Malaysian manufacturer ready to take the first step.

Take the first step with IME — and see how your challenges can become opportunities for smarter, more competitive growth.

From Concept to Reality: How AM is Transforming Malaysian Manufacturing

Manufacturers today face mounting pressures: the need to innovate faster, reduce costs, and meet increasingly customised demands. Traditional production methods, while reliable, often struggle to deliver the speed and flexibility required in today's global market. Additive Manufacturing (AM) changes that — enabling businesses to design, produce, and deliver parts directly from digital files, faster and smarter than ever before.

For years, 3D printing in Malaysia was mainly seen as a designer's tool — ideal for mock-ups and visual models but rarely considered beyond prototyping. Today, that perception is shifting. AM has matured into a production-ready technology that is reshaping key sectors across Malaysia — from aerospace and automotive to healthcare, high-tech electronics, architecture, consumer products and beyond. Across these industries, AM is delivering speed, precision, and agility that conventional methods can't always match

Equally important, AM brings strong sustainability benefits. By reducing material waste, enabling on-demand production, and localising supply chains, it supports more resource-efficient manufacturing while lowering the environmental footprint. This combination of innovation, efficiency, and sustainability makes AM one of the most compelling technologies driving the future of manufacturing.

Real Results from Functional Pilots

This evolution isn't just theoretical — Malaysian companies are already demonstrating AM's value through practical applications.

In automotive, manufacturers can produce lightweight brackets and customised assembly jigs that cut production time by nearly 40%, reduce material waste by 30%, and shorten tooling lead times from weeks to days. The redesigned parts have passed rigorous fatigue and load testing, showing a 20% improvement in structural integrity — a crucial factor for safety-critical components. These gains translate into lower operational costs, faster product iteration, and reduced downtime on the line.

Healthcare is experiencing equally transformative outcomes. Hospitals are now creating patient-specific anatomical models, implants, and surgical guides in days rather than weeks. This allows surgeons to plan complex procedures with greater precision, reducing time in the operating room and improving patient outcomes.

Similar advances are also emerging across aerospace, consumer goods, high-tech electronics, and even architecture — where AM is enabling lighter, more efficient components, faster customisation, and clearer design communication.

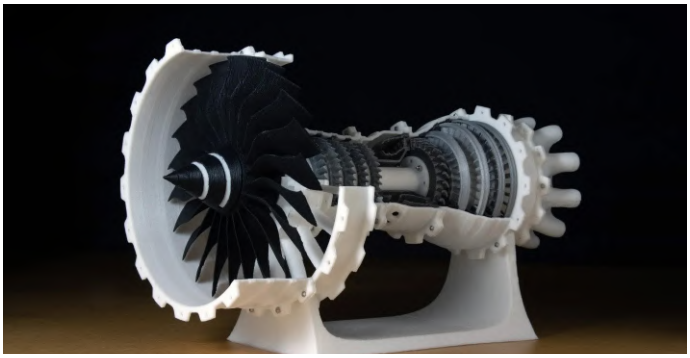
These examples show how AM has moved beyond its R&D roots to become a critical enabler of next-generation manufacturing and healthcare solutions.

From Concept to Production

Building on these early successes, Malaysian companies are now moving beyond prototypes to produce certified, end-use parts directly from digital files.

In aerospace, lightweight jigs and fixtures are cutting lead times while meeting strict safety standards. Manufacturing floors are boosting productivity and quality with custom jigs, inspection fixtures, and ergonomic aids. Architecture firms are creating highly detailed, scale-accurate models that communicate design intent clearly to clients and stakeholders.

By eliminating costly tooling and molds, AM proves especially valuable for low-volume production. Companies can produce on demand, reduce waste, and respond faster to customer needs — all while maintaining flexibility and precision.



> Additive Manufacturing is no longer just a tool — it's a game-changer for how products are designed and made. At IME, we enable companies unlock its full potential and turn innovative ideas into real, production-ready solutions.
>
> **JY Teoh**
> *Executive Vice President*
> *IME Group of Companies*

Leading the Future: How IME Helps Companies Master AM

The next step for Malaysian manufacturers is not only to adopt AM, but to unlock its full potential across design, production, and business models.

IME supports this journey by providing:

- **End-to-End Consultation** – from identifying the right applications to designing business cases that prove ROI.

- **Technology Deployment –** delivering world-class AM systems tailored to production requirements.

- **Material and Process Expertise** – helping companies select the best materials and optimise workflows for consistency and quality.

- **Ongoing Support and Collaboration** – ensuring success through operator guidance, technical support, and continuous innovation partnerships.

The future of manufacturing in Malaysia is already here — faster, smarter, and more sustainable. IME is ready to help companies lead this transformation, turning today's opportunities into tomorrow's competitive advantage.

Precision Care: How 3D Printing is Transforming Healthcare in Malaysia

From medical devices to training simulations — IME is bridging technology and healthcare for a safer, smarter future.

Medicine is constantly evolving, with new technologies reshaping how doctors diagnose, treat, and save lives. Among these innovations, 3D printing is proving to be one of the most powerful. No longer limited to engineering labs, it is now transforming operating rooms, classrooms, and research centres Malaysia.

At the heart of this shift is **IME**, working with hospitals, universities, and associations to unlock the potential of 3D printing in medicine. From virtual surgical planning to training simulators, IME is enabling doctors, students, and researchers improve precision, enhance learning, and accelerate innovation.

Proven Growth & Global Momentum

Globally, the medical 3D printing market is one of the fastest-growing in healthcare technology. Industry studies estimate the sector at **USD 3.5 billion in 2024**, with projections to surpass **USD 12 billion by 2032**, growing at a CAGR of nearly **17%**.

Locally, surveys with about 100 doctors and medical professionals revealed a similar trend: while 91% had not yet used 3D printing, 80% expressed strong interest in adopting it for pre-surgical planning, surgical guides, and training.

Where 3D Printing Makes a Difference

1. Training & Simulation

Medical education is moving beyond textbooks and cadavers — 3D-printed models allow students and professionals to practise procedures on lifelike, patient-specific anatomy.

- **AFC Ankle-Injection Simulator** – IME partnered with the Asia Faculty of Clinical Ultrasound (AFC) to create a realistic ankle-injection simulator, giving trainees hands-on practice before treating real patients *(Refer Image 1)*

Image 1: AFC Ankle-Injection Simulator

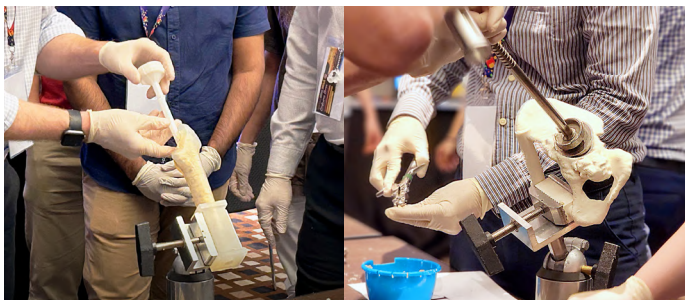
- **Universiti Malaya (UM) Anatomy Teaching** – UM integrated 3D printing into its anatomy curriculum, enabling students, doctors, and medical officers to explore accurate, patient-specific anatomical models as part of their coursework (Refer Image 2)

- **Implant & Device Replicas** – IME also produces 3D-printed replicas of surgical implants for training, allowing hospitals to conduct hands-on workshops without using costly real implants, preserving them for patient care

Image 2: Universiti Malaya (UM) Anatomy Teaching

2. Pre-Surgical Planning & Patient-Specific Guides

Perhaps most transformative is pre-surgical planning. Surgeons can now rehearse procedures on patient-specific models and use customised guides for greater accuracy. Collaborations with the **Malaysian Society for Hip & Knee Surgeons (MSHKS)**, **SIRIM**, and **UM** have already produced orthopaedic training models and surgical guides such as those used in high tibial osteotomy (HTO).



MSHKS: femur & pelvis models for orthopaedic training

SIRIM & UM: high tibial osteotomy surgical guides & models

Bridging Medical Needs with Technology

IME's vision is simple: equip doctors, researchers, and students with the tools they need to advance care.

- **For researchers** → rapid prototyping and testing of new medical ideas
- **For professionals** → simulators and virtual planning tools to rehearse complex procedures safely
- **For students & patients** → 3D-printed anatomy models that replace cadavers & improve patient understanding

To support this, IME offers a full suite of solutions: **virtual planning, 3D printing services, product re-engineering, training simulators, and patient-specific instruments (PSI)**. Together, these turn innovation into real-world impact.

Building Malaysia's Medical Additive Manufacturing Ecosystem

Technology alone isn't enough. By working with hospitals, universities, associations like MSHKS, SIRIM, AFC, and patients, IME is building a medical 3D printing ecosystem that strengthens the entire healthcare system.

As Malaysia pushes forward in advanced healthcare, IME's role is clear: to make 3D printing accessible, affordable, and impactful.

How IME Supports the Medical Community:

- **Collaborative Projects** – co-developing training models, simulators, and surgical guides with hospitals and associations
- **Technology Deployment** – providing world-class 3D printing systems tailored to healthcare applications
- **Specialised Services** – from patient-specific instruments (PSI) to re-engineered medical devices
- **Knowledge Transfer** – training and upskilling doctors, researchers, and medical technologists in AM

With strong collaborations and a growing network, IME is helping shape a future where every doctor, student, and patient benefits from the precision and potential of 3D printing. For hospitals and institutions looking to explore the next step, IME is ready to turn innovation into everyday medical practice.

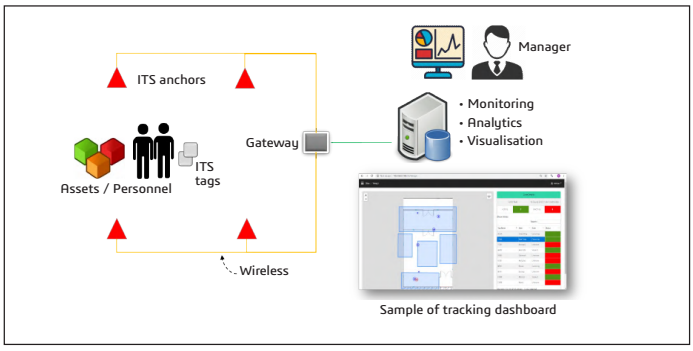
> 3D printing in medicine is more than technology. It is about enabling safer surgeries, smarter training, and more confident patients.
>
> **Sufian Hashim**
> *Technologist, Additive Manufacturing in Life Sciences, IME Group of Companies*

High Accuracy Real-time Indoor Tracking (ITS)

An indoor location track and trace system capable of performing high-accuracy position determination, storing and analysing the position of a tracked subject. This system is suited for Smart Manufacturing and Internet of Things (IoT) System use cases which require high-accuracy position awareness.

Overview

An Indoor Tracking System (ITS) is a high-accuracy track and trace system utilising Ultra-Wideband (UWB) technology. It supports real-time location data collection and analysis for IoT applications in 4IR (specifically Industry 4.0) environments. The system consists of four device types, namely tracked tags, fixed position anchors, gateway(s) to communicate with tags and anchors and a central server to receive, store and analyse tracked tag positions. Distance is measured directly through time-of-flight resulting in higher accuracy position determination.



Basic deployment of ITS

Technology Benefits

The main impacts of ITS are:

- **Digital Twin Representation for IoT / Smart Manufacturing**
  Enable simulation of cyber-physical systems with real-time location data to enrich analysis and decision-making.
- **IR4.0 Catalyst**
  Indoor positioning is a fundamental technology that enables innovative and practical use cases applicable to the industry.

Features

ITS provides the following features:

- **Indoor Location Positioning**
  Accurately display a position in real time with visualisation on a real-time dashboard.
- **Human or Asset Tracking Mode**
  Operation mode for either personnel/human or asset tracking with applications for workplace optimisation.
- **User Geofence or Zone Creation**
  System's user ability to create geofence areas of interest. Ability to assign work jobs/activities in zones if in human tracking mode, or assign specific areas of expected statically positioned assets in the tracked coverage area.
- **Analytics and Report Generation**
  Analytics determining dwell time of tags in created zones and density heatmap. In human tracking, overall daily dwell zone summary and dwells per job zone time / activity. In asset tracking, a report indicates tags in or out of assigned zones.
- **Position Replay**
  Allow replay of tag movement for historical tracking review.
- **API Access**
  Access to location data allows third parties to develop different analyses, applications and monitoring dashboards.

Applications

Manufacturing, Retail, Healthcare and Tourism.

Cobot Palletizing Automation

Our cobot technology makes palletizing faster, more efficient, and more affordable than ever before. The cobot palletizers are advanced robotic systems that use cutting-edge technology to handle your palletizing needs. It can be programmed to handle a variety of products and packaging types, and their flexible design allows for easy adaptation to changing production needs.

Increased Efficiency

Work faster and more consistently, enhancing operational efficiency and throughput.

Enhanced Workplace Safety

Designed with advanced sensors and safety features to keep employees and products safe.

Improved Accuracy

Ensure accurate product placement and stacking, reducing the risk of errors and product damage.

Cost-effectiveness

Businesses can reduce labor costs while providing excellent ROI and long-term cost savings.

Why choose our Cobot Palletizing system?

- Affordable price
- Free on-site assessment
- Fast & easy setup
- Space saving design
- Pick & place up to 20kg payload
- Able to handle 2 pallets at once
- Suitable for:
  - ☑ Food & beverage industry
  - ☑ Cosmetic industry
  - ☑ Consumer goods

Machine Tending

It involves automating the process of loading and unloading materials in a machine. By minimising manual intervention, it increases efficiency, productivity, and allows for continuous production, freeing up human operators for more complex tasks in manufacturing operations.

Improved safety and reduced risk of workplace accidents.

Enhanced flexibility and adaptability to changing production needs.

Cost savings through reduced labor costs and increased efficiency.

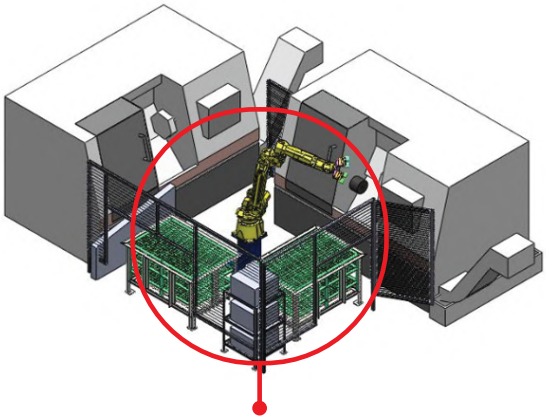
Better utilisation of resources and optimisation of production processes.

Common machines for Machine Tending:

- CNC Machines
- Press and Forming Machines
- Welding Machines
- Injection Machines
- Metal Stamping Machines & many more

Why use Cobot for Machine Tending activites

- Increased capacity, quality and minimised waste
- Constant throughput
- 24/7 operation, increased uptime
- Upgrading worker roles from repetitive loading and unloading to supervising and programming cobots
- Easy to relocate and quickly redeploy with several machines in Low-Volume / High-Mix production environments



One Cobot handling two machines

Smart Monitoring and Control (SMAC)

Smart Monitoring And Control (SMAC) is a control system architecture that consists of hardware and software elements for monitoring and controlling industrial processes and infrastructure by physical or remotely. SMAC system will integrate from sensor, controller which located in industrial environment and display actual information in real time, it also allows for certain control point action if necessary.

Energy Monitoring System in the Food & Beverage Industry

- Automated Temperature and Humidity Data Reporting
- Automated Energy Monitoring
- Parameter Monitoring (Pressure, Temperature, Humidity, Gas Consumption)
- Electricity Consumption and Savings
- Enabling manager to optimise Operational Cost while gradually monitoring production and making better decisions

Pump Monitoring System in the Manufacturing, Oil and Gas, Water Treatment, and Agriculture Industry

- Environmental Monitoring (Pressure, Temperature, Humidity, Carbon Dioxide, Noise)
- Pump Overheat
- Pump Failure
- Overflow
- Liquid Level Setting
- Alarm Notification
- Live Data for Every Pump (Run Time & Power)

Furnace Monitoring System in the Manufacturing, Cement, Steel, Glass, and Power Plants Industry

- Indoor & Outdoor Environmental Monitoring (Pressure, Temperature)
- Temperature & Pressure Monitoring
- Furnace Filling Level
- Actual Refill Weight
- Refill Time
- Number of Doses per Furnace
- Device Status

KEY FEATURES - USER FRIENDLY INTERFACES

Real-Time Monitoring

SMAC system collects data from controllers & sensors in real-time from the production site and allows PIC to monitor critical parameters that will cause operation failure such as temperature reading, pressure level, flow rate, equipment status and etc.

Alarms and Notification

Configure to trigger alarms event and notification through email, or Telegram to PIC for next action response.

Chart

2D charts can be created based on logged data values.

Webclient for Remove View and Control

Users can access webclient by web browser or mobile view to monitor and adjust settings.

Graphic Visualisation

SMAC provides interactive visualisation display to users such as charts, graphs and dashboards which ease users to understand the situation and the data display.

This will ease PIC to identify the risk and make decision as soon as possible.

Library (Animation)

Advanced graphic image and animation library. Users can create their own animation by importing different graphic images.

Simple graphic editing (including animation) can be done.

Scheduler

Scheduler feature offers painless event management by allowing users to schedule events to occur at a specified time. Events can be scheduled on daily, monthly, or yearly basis.

Recipe Editor

To control production process of different products, Recipe Editor offers easy configuration to create, save and edit the parameter sets.

Historical Data and Reporting

System can store historical data in database system and allow users to regenerate historical data report from the system as excel report.

Users can create reports in Excel (Microsoft Office Program) file formats on daily, monthly, or yearly basis.

Multiple Protocols and PLC Drivers

OPC-UA, OPC XML-DA, Modbus RTU / TCP, BACnet IP, MQTT, SQL are integrated into the platform.

APPLY TO INDUSTRIES

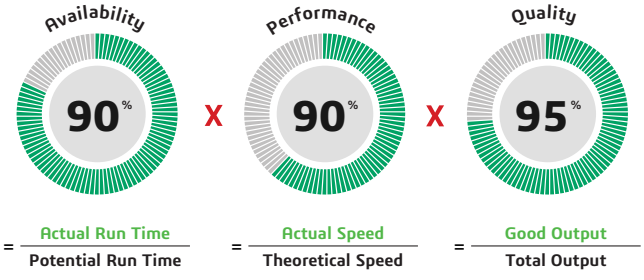
Energy & Utilities | Water & Waste Water Management | Oil & Gas | Manufacturing
Building Automation | Agriculture | Food & Beverage Production

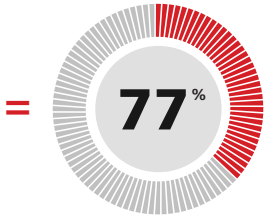
Real-time Machine Data Collection

Introduction | What is CIMCO MDC-Max?

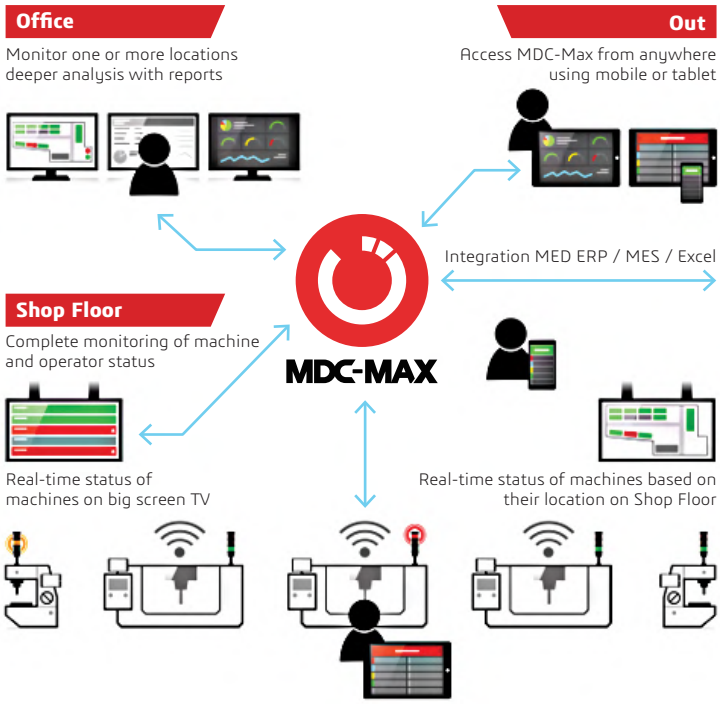
Unlock the full potential of your production. Improve processes, resource use and critical reponse times.

MDC-Max enables you to collect and analyse data from machines and operators to get real-time and historic insights into your shop floor's productivity, performance and quality. Data can be used for different purposes such as real-time monitoring with Andon boards throughout the company, for planning and analysis, or for export to ERP, MES or other systems.





OVERALL EQUIPMENT EFFECTIVENESS



Benefits | Why use CIMCO MDC-Max?

Improved efficiency
Understand the performance of equipment and personnel with real-time data collection. Eliminate production bottlenecks and optimise resource utilisation.

Accurate data collection
Eliminate manual, time consuming and often inaccurate data collection by automating and streamlining the entire data collection process.

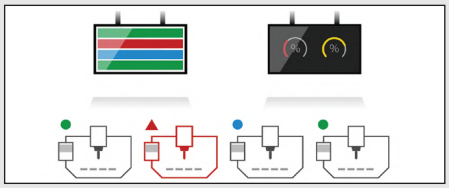
Faster response times
Monitor and visualise the performance of equipment and personnel to respond faster, catch errors sooner, and communicate better.

Eliminate guesswork
Understand the inner workings of your production with customised reports including machine downtime, OEE and other essential KPIs.

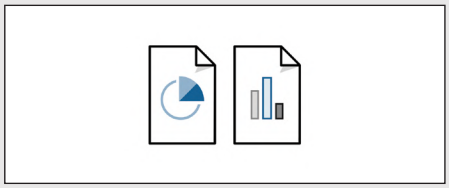
Reduce administration time
Reduce paper reliance and administrative time. Update your ERP, MES or other administrative system with real-time data from equipment and personnel.

Access your data anywhere
Access data from one or more sites directly from your mobile device. Easily check the status of equipment or any other information critical to your operation.

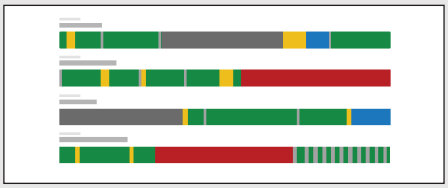
Key Features



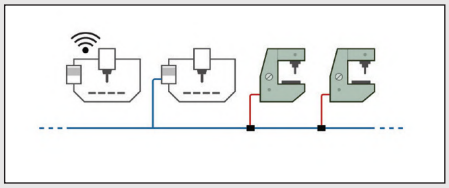
Real-time monitoring / Andon
See the current status and performance data of your machines on Andon boards, PC and mobile. Customise the layout and content of screens to suit your needs.



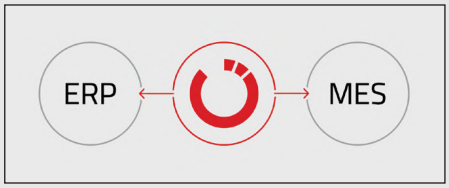
Customisable reports
Generate reports with calculation of OEE, downtime and other essential KPIs. Set production targets, work shifts and sort data by different factors.



Real-time reporting
Generate real-time reports that dynamically update as data comes in, such as machine timelines.

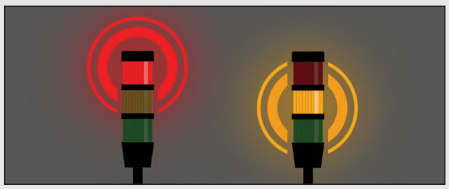


Works with your equipment
Collect data automatically or manually using your existing wireless network, Ethernet, RS-232 or Parallel I/O. Use existing barcode readers and PCs on the shopfloor.

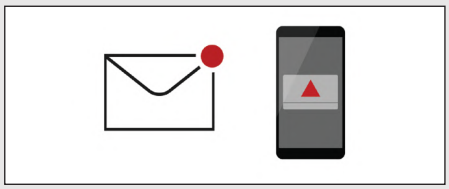


Integration with external systems
Streamline data management and workflows by updating ERP, MES or other administrative systems directly with data from MDC-Max.

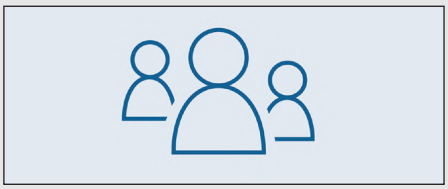
Operator interface
Enables operators to access essential information directly at the machine and enter data such as current shift, job, reasons for downtime and scrap.



Andon and signaling units
Control signaling units such as stack lights, buzzers and Andon boards that indicate the status of your machines.



Email and text notifications
MDC-Max can send text and email alerts to key staff on any machine and operator event such as automatically during unattended runs.



Secure user management
Fine-grained control over user access and permissions. View logs of user actions and system events for auditing and troubleshooting purposes.

The full suite of CIMCO software

CIMCO Edit
Full-featured NC editing, simulation and machine communication tool. Powerful add-ons available.

CIMCO DNC-Max
The leading solution for NC program transfers to and from CNC machines. Compatible with machines and files.

CIMCO MDC-Max
Real-time manufacturing data collection. Optimise use of resources, and streamline processes.

CIMCO NC-Base
Organise, manage, and protect part programs and related production documents efficiently.

CIMCO MDM
Complete solution for manufacturing document management. Integrates with CAD/CAM systems from leading vendors.

CIMCO Scheduler
Production schedulling and order tracking solution. Improve delivery times and use of machines and resources.

CIMCO Machine Simulation
Prove-out your NC program on a 3D CNC machine model. Automatic checks for collisions, out of limit moves and more.

CIMCO CNC-Calc
A basic CAD/CAM. Draw 2D geometrical contours and lay out toolpaths for milling and turning machines.

CIMCO Mazatrol Viewer
Enables CIMCO Edit to read, preview and print Mazatrol binary files for both milling and turning.

CIMCO Teachware
E-learning solution that introduces students to working with digital machine tools.

2026 IME TRAINING COURSES

SOLIDWORKS		
PROGRAMME TITLE	**DURATION**	**COURSE INTRODUCTION**
Essentials	5 Days	Everything you need to know about SOLIDWORKS for building parametric models of parts and assemblies, and making drawings of those parts and assemblies.
Advanced Topics	5 Days	A collection of several advanced CAD modeling techniques. It includes selected lessons and exercises from SOLIDWORKS Assembly Modeling, Advanced Part Modeling, Surface Modeling, Sheet Metal and Weldments.
Advanced Part Modelling	3 Days	The Advanced Part Modelling course is for SOLIDWORKS users who need to create complex parts or just want to become more productive.
Advanced Assembly Modelling	3 Days	The Assembly Modelling course is a must for anyone who wants to master the use of SOLIDWORKS for creating and using assemblies.
Sheet Metal Design	3 Days	SOLIDWORKS Sheet Metal course is designed for users who need to learn how to model sheet metal parts that will be bent in a press brake.
Weldments (Structural Design)	2 Days	SOLIDWORKS Weldments can save up to 90% of your time. This is for any user who designs structures made out of components with constant profiles.
Routing - Piping and Tubing	2 Days	This course will focus on the routing techniques for piping and tubing.
Routing - Electrical	2 Days	This course will focus on the routing techniques for electrical.
Mold Design	3 Days	Mold Design course teaches you how to quickly generate the tooling for any given part and separate it into core and cavity components.
Simulation	3 Days	This course will introduce the participants to fundamental design validation tool for conducting static analysis.
Simulation Professional	2 Days	This course will introduce the participants to the design validation tool for conducting advanced analysis.
Simulation Premium: Nonlinear	2 Days	This course will introduce the participants to the nonlinear static structural behaviour of part and assembly models.
Simulation Premium: Dynamics	2 Days	This course will introduce the participants to the linear & nonlinear dynamic structural behaviour of parts and assemblies.
Simulation Motion	2 Days	This course will introduce the participants to the motion simulation for mechanism study.
Flow Simulation	2 Days	This course will introduce the participants to computational fluid dynamic (CFD) analysis for fluid flow and heat transfer studies.
Plastics Standard	1 Day	This SOLIDWORKS Plastics course teaches you how to use specialised simulation software tools to predict how melted plastic flows during the injection molding process.
Plastics Professional	2 Days	This SOLIDWORKS Plastics course teaches you how to use specialised simulation software tools to predict how melted plastic flows during the injection molding process. This course covers all the features and functions of SOLIDWORKS Plastics Professional (for part designers).
Plastics Premium	3 Days	The SOLIDWORKS Plastics course teaches you how to use specialised simulation software tools to predict how melted plastic flows during the injection molding process. This course covers all the features and functions of both SOLIDWORKS Plastics Professional and Premium (for part and mold designers).
SOLIDWORKS Electrical: Schematic	3 Days	This course will introduce the participants to 2D schematic design, including single line and multi-line diagram. Participants will also learn how to generate drawing output.
SOLIDWORKS Electrical: 3D	1 Day	This course will introduce the participants to electrical 3D features which include technique on integrating 2D schematic to SOLIDWORKS 3D and complete the drawing output.
SOLIDWORKS File Management	1 Day	File Management course will discuss about different techniques for managing CAD documents such as assembly, part and drawing documents.
SOLIDWORKS Composer	3 Days	SOLIDWORKS Composer course will discuss the fundamental skills and concepts central to complete publishing task.
Administering SOLIDWORKS PDM	2 Days	Fundamental skills and concepts central to the successful use of SOLIDWORKS PDM. The intended audience for this course is anyone who will setup and/or administer SOLIDWORKS PDM.

2026 IME TRAINING COURSES

SOLIDWORKS

PROGRAMME TITLE	DURATION	COURSE INTRODUCTION
Using SOLIDWORKS PDM	1 Day	Fundamental skills and concepts central to the successful use of SOLIDWORKS PDM. The intended audience for this course is anyone who will use and manage files with SOLIDWORKS PDM.
API Fundamentals	3 Days	How to use the SOLIDWORKS API (Application Programming Interface) to automate and customise SOLIDWORKS.
Visualize Standard	1 Day	This course teaches how to use the SOLIDWORKS Visualize software to create professional, high quality renderings, videos and VR outputs for marketing purposes. Focusing on Standard users.
Visualize Professional	2 Days	This course teaches how to use the SOLIDWORKS Visualize software to create professional, high quality renderings, videos and VR outputs for marketing purposes. Focusing on Professional users.
Inspection	1 Day	Learn the basics of working with SOLIDWORKS Inspection to automate the process of working with inspection documents.
CAM Standard	2 Days	Use SOLIDWORKS CAM Standard to generate, modify and post-process 2.5 axis milling toolpaths used for machining of SOLIDWORKS part files.
CAM Professional	2 Days	Use SOLIDWORKS CAM Professional and VoluMill™ to perform 3 plus 2 machining and generate, modify and post-process 2 axis turning toolpaths used for the machining of SOLIDWORKS part files.
CSWP Refresher	1 Day	This course will discuss the formats and requirements of the CSWP Exam, including case studies on how to solve the questions in the exam.
CSWA/CSWP Exam	1/2 Day	SOLIDWORKS Certifications can be used as a benchmark to measure your knowledge and competency with SOLIDWORKS software.
Upgrade (What's New SOLIDWORKS 2025)	1/2 Day	Discover the forefront design and innovation on the new feature updates in the latest release of SOLIDWORKS.

3DEXPERIENCE

PROGRAMME TITLE	DURATION	COURSE INTRODUCTION
3DEXPERIENCE Essentials	1 Day	Enable you to effectively perform the activities associated with the roles of the 3DEXPERIENCE platform: Collaborative Business Innovator, Collaborative Industry Innovator and Collaborative Designer for SOLIDWORKS.
3DEXPERIENCE SOLIDWORKS Premium	3 Days	The goal of this course is to teach users how to use the roles and applications included in the 3DEXPERIENCE SOLIDWORKS Premium package.
SOLIDWORKS Cloud	3 Days	Create both mechanical and complex-shaped products, frame structures, and sheet metal designs on cloud. Collaborate in real-time across disciplines, departments, and your entire business ecosystem, including customers, partners, and suppliers.

DRAFTSIGHT

PROGRAMME TITLE	DURATION	COURSE INTRODUCTION
DraftSight - 2D Drafting	2 Days	Use DraftSight 2D Drafting features to optimise your drawings and designs for manufacturability so you can maximise quality, avoid rework and decrease time to market.
DraftSight - 3D Drafting	3 Days	Use DraftSight 2D and 3D Drafting features to optimise your drawings and designs for manufacturability so you can maximise quality, avoid rework and decrease time to market.

INDUSTRIAL COURSES

PROGRAMME TITLE	DURATION	COURSE INTRODUCTION
Stack-Up Analysis	3 Days	Learn the calculation method that allows designers to control the overall tolerances from individual parts to the whole assembly.
Simulation-Driven Design	5 Days	This course will take the engineers through the three types of nonlinearities, and mesh refinement, with the objective of achieving accurate prediction of simulation FEA results.
Do It Right The First Time (DRIFT) Plastics Design	2 Days	This course looks at the various root causes of failed plastic parts so that participants can learn how to detect and deal with them.
Root-Cause Your Plastic Part Problems	2 Days	This course examines the possible root cause(s) of the variety of problems encountered during the production, assembly and usage of injection molded plastic parts.

45 YEARS OF EVOLVING

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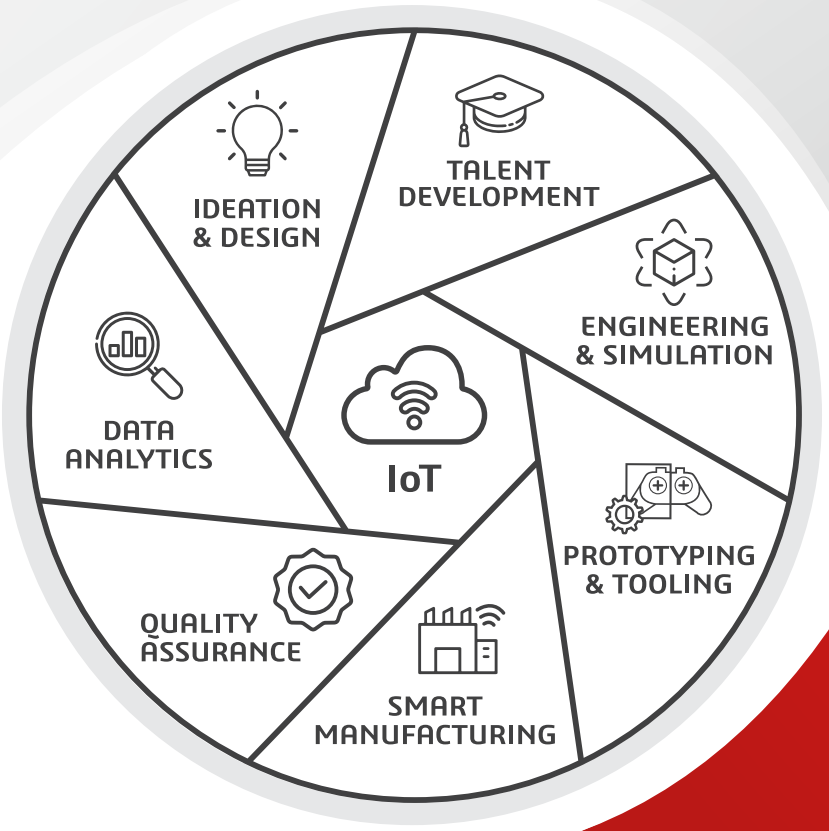

IMPLEMENTATION ACROSS
DESIGN & MANUFACTURING

IME Technology Sdn Bhd is a member of Group of Companies, the leading and most established CAD, CAM and CAE solutions provider in Malaysia since 1980. IME offers extensive range of design to engineering solutions fixated around digital transformation namely Additive Manufacturing, Robots, Simulation, IoT, Big Data Analytics and System Integration in the manufacturing space.

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