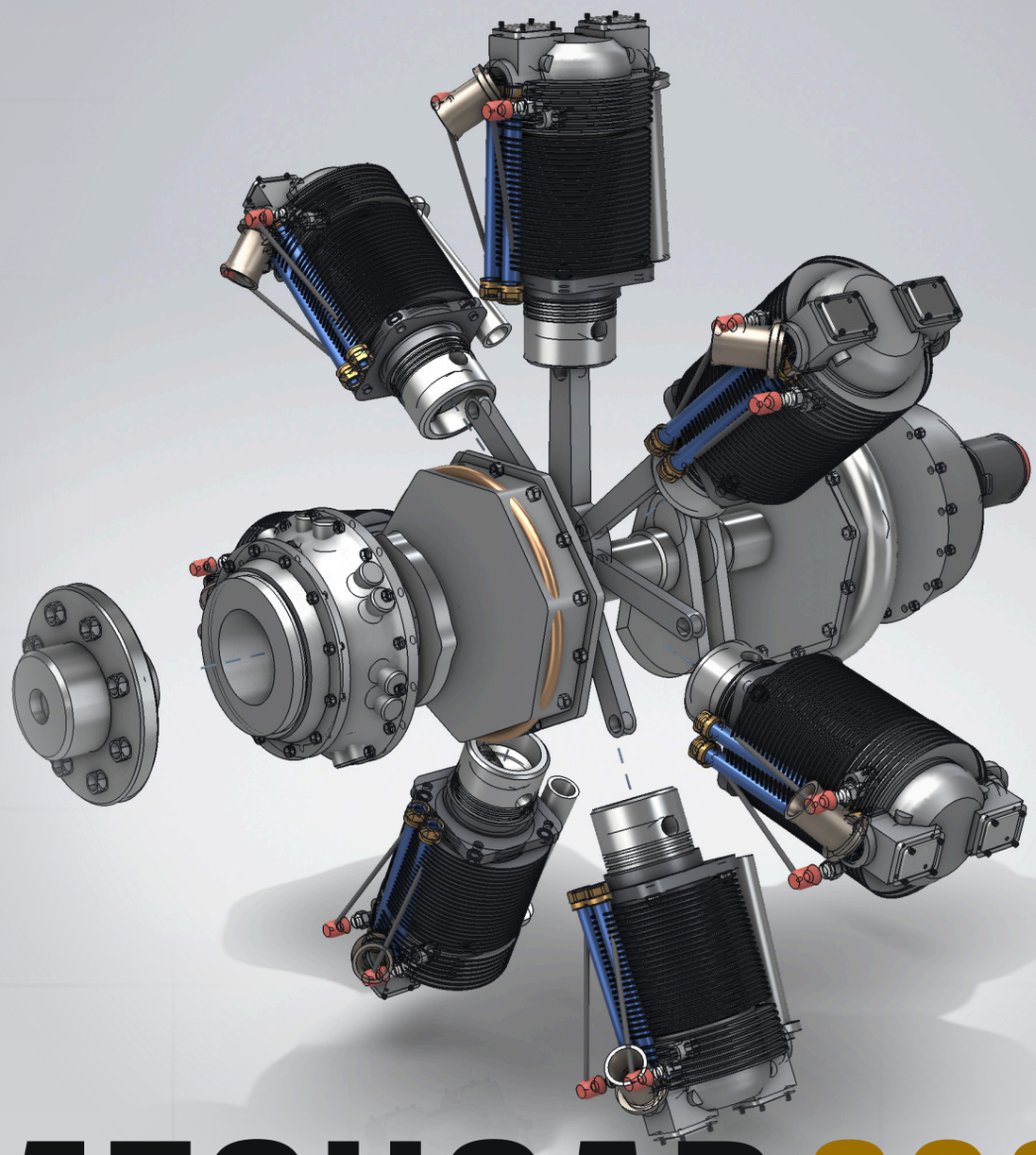
MECHATRONICS DESIGNED CO., LTD.

PRODUCT BROCHURE
WINDOWS 10 / 11 (64-BIT)



MECHCAD 2026

3D CAD/CAM FOR MACHINE DESIGN

Design it. Assemble it. Machine it.

01
Parts, assemblies & production drawings

02
Integrated CAM with simulation & G-code

03
Opens STEP and SOLIDWORKS® files*

PERPETUAL LICENCE · NO SUBSCRIPTION REQUIRED

WWW.MECHDESIGNED.COM

02 — FEATURES

Everything from first sketch to G-code

One program for the whole machine-design job: model the parts, build the assembly, document it for the shop and program the CNC, with one file and one interface.

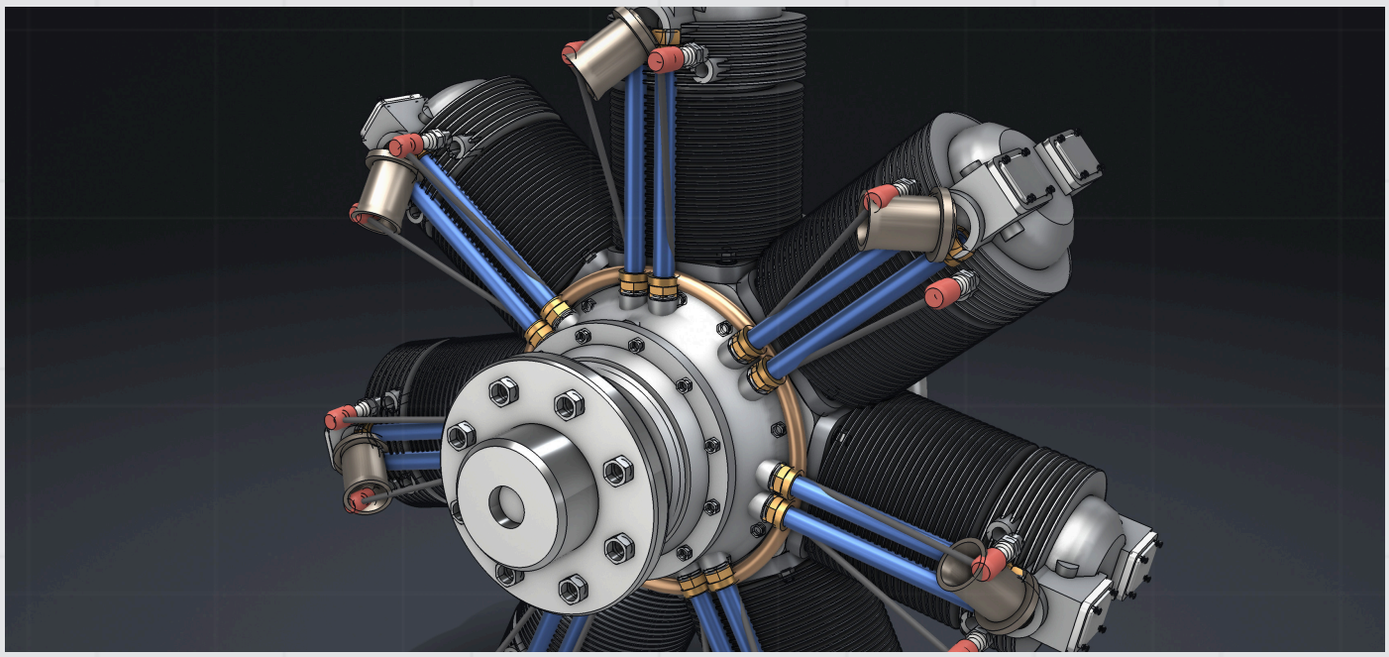
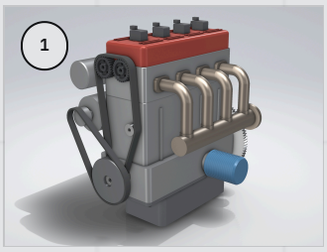


FIG. 1 — 3D CAD/CAM FOR MACHINE DESIGN

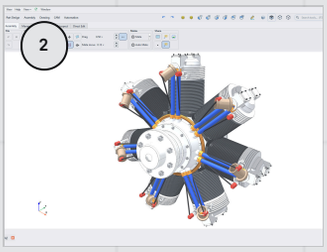
ITEM	FEATURE	DETAILS
1	**Part design**	Sketches with constraints, smart dimensions and snaps · Extrude, revolve, sweep, loft, shell, draft, hole wizard, patterns · Feature history with an editable rollback bar · Direct Edit: push/pull faces, rotate datums
2	**Assemblies**	23 mate types and auto mate · Sub-assemblies, linear and circular patterns · Exploded views, interference and clearance checks · Fast viewing of large assemblies
3	**Production drawings**	Projected, section, detail and broken views · Automatic dimensions and hole callouts · BOM tables, balloons, title blocks and templates · Export to PDF, DXF and DWG
4	**Integrated CAM**	2.5D milling: face, pocket, profile, drill, slot, chamfer, engrave, thread · 3D roughing and finishing · Turning with grooving and threading · Simulation with collision check, G-code via editable posts
5	**Motion & automation**	Motion studies with a keyframe timeline · Robot-cell layout: 6-axis robots, cobots, delta robots, conveyors · Pick-and-place wizard · Video and GIF recording
6	**Generators & sharing**	Spur, helical, rack, internal, worm and bevel gears · Helix and spring sweeps, bottle feed screws · Automatic BOM to Excel and PDF · Single-file HTML 3D models and realistic renders

From idea to machined part



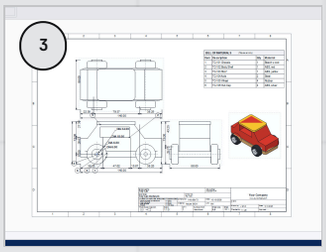
Model

Sketch and build parts with a full parametric history, or open existing CAD files.



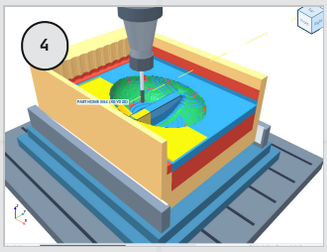
Assemble

Place parts, add mates, check interference and explode the design.



Document

Generate drawings with views, dimensions, BOM and balloons.



Machine

Program milling and turning, simulate the cut and post G-code.

OPEN & IMPORT

Neutral 3D	STEP, IGES, BREP
Parasolid / ACIS	X_T, X_B, SAT, SAB
SOLIDWORKS®*	Parts (SLDPRT) as solids; assemblies (SLDASM) converted to MECHCAD parts + assembly
Autodesk® Inventor®*	Parts (IPT)
Solid Edge®*	Parts, sheet metal, weldments (PAR, PSM, PWD)
Alibre®*	Parts and assemblies (AD_PRT, AD_ASM)
Mesh	STL, OBJ, 3MF, glTF / GLB, PLY, OFF, VRML; closed meshes become solids
2D	DXF and DWG into sketches and title blocks

SAVE & EXPORT

Native	Part, assembly, drawing, CAM, automation (.metprt .metasm .metdrw .metcam .metauto)
3D	STEP, STL
Drawings	PDF, DXF, DWG
BOM	Excel (XLSX) and PDF with balloons
Sharing	Single-file HTML 3D model, PNG renders, Pack and Go (.metpkg)
Motion	MP4 video, animated GIF
CNC	G-code (.nc) via editable posts, FANUC® by default; setup-sheet PDF

* Native files are read without the original CAD program installed. Geometry comes in as solids; Feature recognition can rebuild an editable history. Most files open cleanly. If one does not, send it to us.

SEARCH

Search tools (F3)

New to MECHCAD? Press F3 and type what you want to do. MECHCAD opens the right tab and highlights the button, and the Manual button opens help for the tool you are using.

SYSTEM

System & availability

- Windows 10 / 11 (64-bit)
- Direct download from mechdesigned.com or Microsoft Store
- Internet connection to start the trial and to activate a licence
- Sample projects included: camera, PET bottle, chair, 6-axis robot cell, CAM jobs

04 — EDITIONS & LICENSING

Buy once. Own it.

Three editions on one licence key: upgrade to a higher edition without reinstalling.

EDITION	STANDARD	EXPERT	PREMIUM
Parametric part design, Direct Edit, design generators	■	■	■
Assemblies with 23 mate types, patterns, exploded views	■	■	■
Production drawings, title blocks, PDF / DXF / DWG export	■	■	■
CAD import: STEP, IGES, SAT, SOLIDWORKS, Inventor, Solid Edge, Alibre, meshes	■	■	■
Motion studies and robot-cell simulation	—	■	■
Interference and clearance checks	—	■	■
Automatic BOM to Excel / PDF and HTML 3D export	—	■	■
CAM: 2.5D / 3D milling, turning, simulation, G-code	—	—	■

LICENCE

Licensing

- Perpetual licence: buy once and keep your version. No subscription required.
- First year of Maintenance (MA) included for updates; renew MA when you choose.
- Free 30-day Premium trial, started from the Welcome screen.
- Online activation through MET's licence service; move a seat to a new computer yourself.

ABOUT

About MET

Mechatronics Designed Co., Ltd. (MET) builds automation machinery in Thailand. MECHCAD was built by the MET development team from 20+ years of designing automation machinery, and support comes in Thai and English from the people who write the software.

TRIAL

Try every Premium feature free for 30 days

Download from mechdesigned.com or Microsoft Store and press “Start 30-day Premium trial”.

CONTACT

Mechatronics Designed Co., Ltd.
26/230 Moo 18, Soi Mitsubishi, Paholyothin Rd., Klong Nueng, Klong Luang, Pathumthani 12120 Thailand
+66 2 520 4575 · sales@mechdesigned.com
www.mechdesigned.com · LINE @mechdesigned

SCAN

SOLIDWORKS, Autodesk Inventor, Solid Edge, Alibre, Parasolid and FANUC are trademarks or registered trademarks of their respective owners. They are named only to describe file compatibility; MECHCAD is not affiliated with or endorsed by these companies. MECHCAD is a trademark of Mechatronics Designed Co., Ltd.