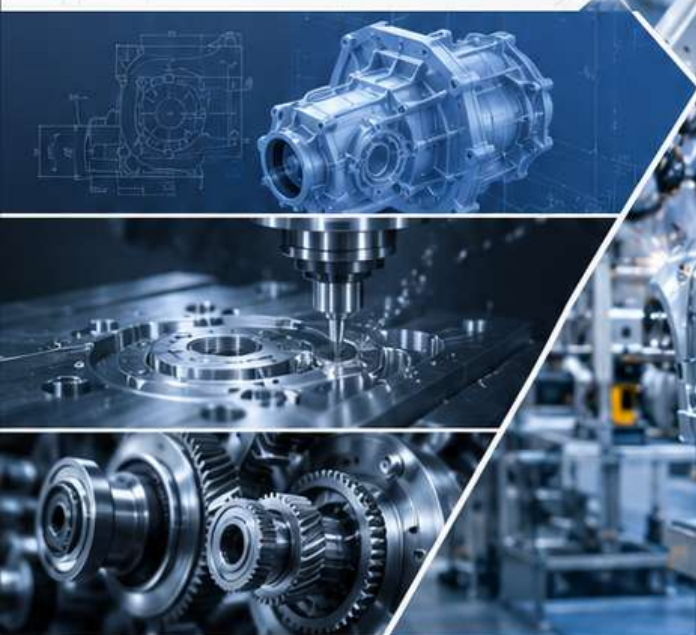


MECHANICAL ENGINEERING SOLUTIONS

**Precision design support for manufacturing,
automation and product development.**

From automotive design and special purpose machines to press tools, CAD engineering and manufacturing support, Moldtek helps manufacturers reduce rework, accelerate development and improve execution confidence.



About

MOLD·TEK

Moldtek Technologies is a trusted engineering and technology solutions partner supporting global manufacturers with precision-driven design and development services. We combine engineering expertise, digital tools and disciplined delivery systems to help clients accelerate product development, improve manufacturability and reduce rework.



Established in
2001



500+
Employees



Presence in
USA | UK | India



Global
Project Experience



Mechanical &
Manufacturing
Expertise

The Mechanical Challenge

Manufacturers work under constant pressure to launch faster, reduce development cost and eliminate design-to-production gaps. Even small engineering mistakes can lead to rework, delays and quality issues downstream.



Tight product
development timelines



Frequent design
changes and
iteration loops



Manufacturability
and tooling
constraints



High rework
caused by
incomplete drawings



Need for simulation,
validation and
accuracy



Pressure to improve
cost, quality
and speed

» Moldtek's mechanical engineering services help manufacturers reduce risk, improve accuracy and deliver projects with confidence.



www.moldtekengineering.com

OUR MECHANICAL ENGINEERING SERVICES

Integrated engineering support across
product design, tooling and manufacturing.



01

AUTOMOTIVE DESIGN SERVICES

Design support for BIW, tooling, fixtures, robotic studies and automotive development programs.



02

SPECIAL PURPOSE MACHINE DESIGN

Custom machines, automation systems and production equipment built around your exact process needs.



03

SHEET METAL PRESS TOOL DESIGNS

Progressive, transfer, tandem and stage die design focused on precision and productivity.



04

MECHANICAL ENGINEERING SERVICES

Concept design, 3D modeling, FEA, detailing and product engineering support.



05

CAD / CAE & SIMULATION

Accurate digital models, analysis workflows and validation support for faster decision making.



06

MANUFACTURING SUPPORT

Detailed documentation, drafting and execution support to move from design to production smoothly.



Moldtek helps manufacturing teams reduce rework, improve coordination and accelerate execution.



AUTOMOTIVE DESIGN SERVICES

Engineering support for speed, accuracy and manufacturability.

Moldtek supports automotive and mobility programs with design services that help Tier 1 suppliers and manufacturers improve quality, reduce iteration cycles and move faster from concept to production.



OUR CAPABILITIES



BIW fixtures and tooling



Robotic simulation support



Weld gun and assembly studies



Line layouts and design documentation



Battery tray and underbody component support



Manufacturing-ready CAD deliverables

DELIVERING IMPACT THAT DRIVES RESULTS



Precision

Accurate designs that reduce variation and improve quality.



Speed

Faster iterations and decisions to meet demanding timelines.



Manufacturability

Designs optimized for efficient manufacturing and assembly.



EV Readiness

Expertise in EV components and future-ready solutions.



MOLDTEK

SPECIAL PURPOSE MACHINE DESIGN

**Custom-built automation
engineered around your process.**

Moldtek designs special purpose machines for manufacturers who need targeted solutions for specific operations, higher productivity and better repeatability. Our approach is centered on performance, integration and real-world usability.



- Concept and detailed machine design



- Automation cells and assembly stations



- Conveyor and material handling systems



- Robot integration and ergonomic studies



- GA drawings and manufacturing documentation



- Prototype and execution support



Tailored Automation

Solutions built specifically for your process, not one-size-fits-all.



Repeatability

Engineered for precision and consistent results every cycle.



Productivity

Higher throughput with faster cycles and minimal downtime.



Lower Manual Effort

Reduce manual tasks and improve operator safety and ergonomics.



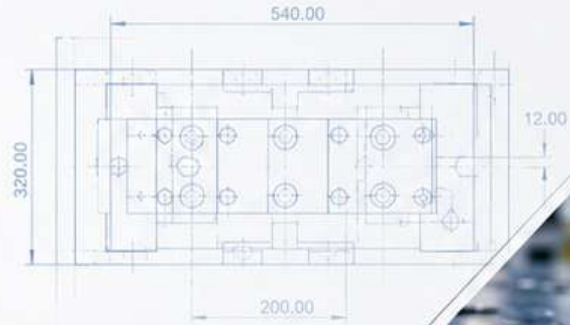
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SHEET METAL PRESS TOOL DESIGNS

Precision tooling for consistency, quality and throughput.

Moldtek delivers press tool design support for manufacturers who need accuracy, repeatability and cost-effective production. We help reduce tooling errors, improve material utilization and support reliable sheet metal manufacturing.



OUR CAPABILITIES

- > Progressive die design
- > Transfer die design
- > Tandem die design
- > Line or stage die design
- > Tooling layout and detailing
- > Simulation-informed design support
- > Material and manufacturing optimization



TOOLING PRECISION

Accurate designs that ensure tight tolerances and part consistency.



HIGHER OUTPUT

Optimized tooling for faster cycles and improved throughput.



LOWER WASTE

Better material utilization and fewer reworks reduce overall costs.



PRODUCTION CONFIDENCE

Reliable tooling performance that supports stable, uninterrupted production.



MECHANICAL ENGINEERING SERVICES

**From concept to validated
engineering deliverables.**

Moldtek provides mechanical engineering support that helps manufacturers develop better products, validate design decisions earlier and move efficiently from concept to production. Our teams combine engineering discipline with digital tools to support quality and execution.

OUR CAPABILITIES

- Concept development
- 3D CAD modeling and detailing
- Engineering drawings and BOMs
- FEA and design validation support
- Tolerance and manufacturability reviews
- Value engineering and design optimization
- Prototype support



ACCURACY

Detailed engineering that ensures precision across every component and assembly.



VALIDATION

Simulation and analysis support to validate designs and reduce risk early.



OPTIMIZATION

Smarter designs that improve performance, reduce cost and enhance manufacturability.



EXECUTION READINESS

Production-ready deliverables that accelerate manufacturing and ensure smooth implementation.





MOLD·TEK

PRODUCT DEVELOPMENT & CAD / CAE SUPPORT

Smarter digital engineering for
faster development cycles.

Digital engineering plays a critical role in improving collaboration, reducing late-stage design changes and increasing confidence before production. Moldtek supports product development with clear documentation, accurate models and analysis-driven workflows.



OUR CAPABILITIES

- 3D part and assembly modeling
- 2D production drawings
- Design updates and change management
- Engineering data management support
- Simulation and analysis coordination
- Reverse engineering and redesign support
- Digital documentation for manufacturing



BETTER COORDINATION

Aligned teams, streamlined communication and centralized design data.



FEWER ITERATIONS

Analysis-driven insights help reduce design changes and development time.



DIGITAL READINESS

Clean models, accurate documents and structured data for manufacturing.



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PROJECT SUPPORT SERVICES

Additional value that
strengthens execution.

- Engineering coordination
- Vendor drawing review and mark-up
- Quantity take-off and estimation support
- Scheduling and documentation support
- Manufacturing support
- Prototype and launch support
- As-built documentation and handover



TOOLS & STANDARDS



SOFTWARE & TOOLS

AutoCAD | SolidWorks | CATIA |
NX | Creo | Revit | MS Office



STANDARDS WE FOLLOW

ISO | ASME | ANSI | GD&T |
Customer-specific standards



Accuracy
You Can Trust



Compliance
You Can
Count On



Quality
At Every Step



Execution
With Confidence

WHY CHOOSE US

We combine domain expertise, disciplined quality systems and practical engineering support to help manufacturers build better products, improve execution and scale with confidence.



Domain Expertise

Deep mechanical and manufacturing engineering knowledge across multiple applications.



Quality & Accuracy

Structured QA processes that support dependable deliverables.



On-time Delivery

Planned execution that helps teams meet deadlines.



Scalable Teams

Flexible engagement models and scalable engineering capacity.



Partnership Approach

We work as an extension of your engineering team.



Technology-led Execution

Modern tools and digital workflows that improve visibility and efficiency.



Let's engineer better products together.

Partner with Moldtek for reliable, efficient and future-ready mechanical engineering solutions.

MOLDTEK

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