

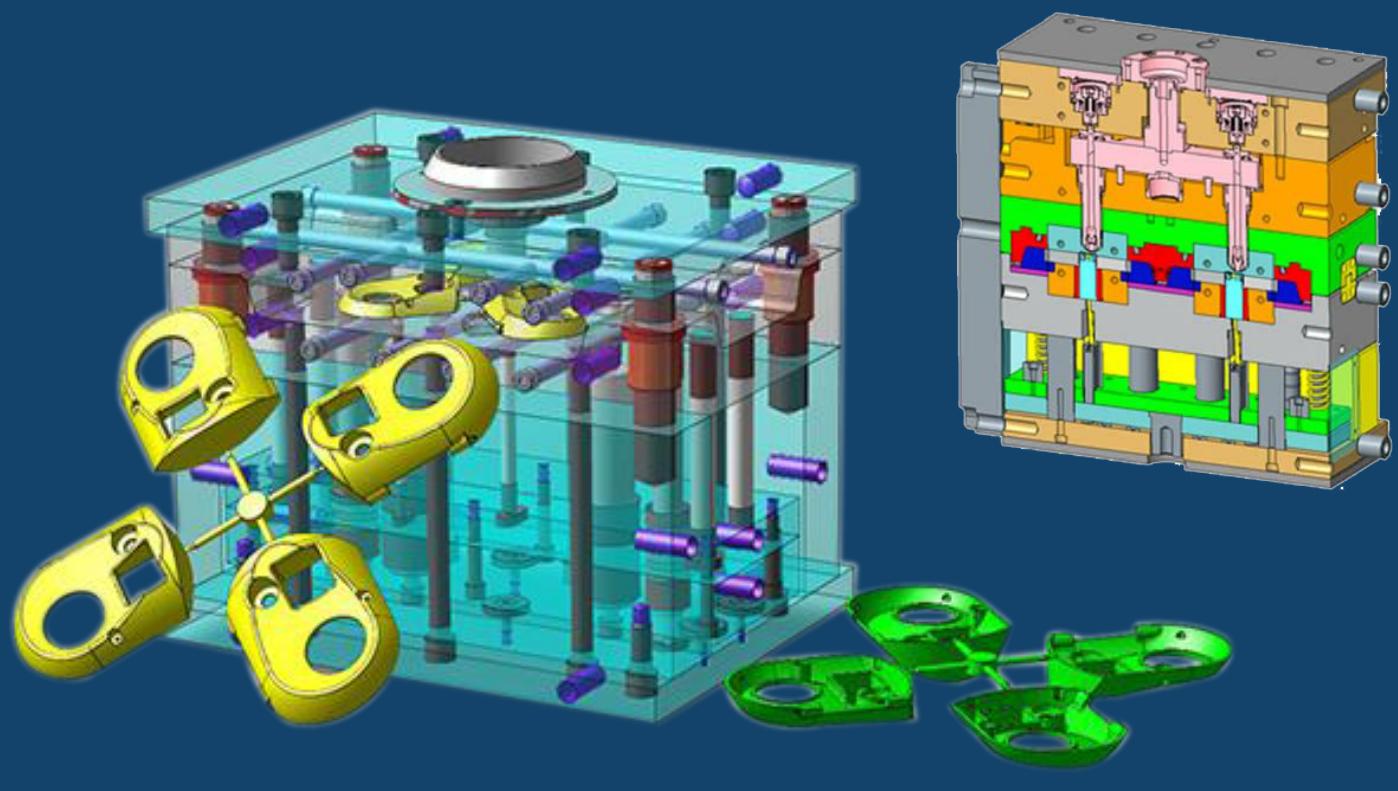


APJ Engineering Design Works

Transforming Ideas into Engineering Excellence

TOOL DESIGNS

Precision Tools. Proven Results



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Business | Design Head

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Elevate Your Manufacturing: Precision Design for Press Tools & Injection Moulds

APJ Engineering Design Works understands that the foundation of superior manufacturing lies in impeccable tool and mould design.

In today's competitive landscape, design errors lead to costly delays, material waste, and compromised product quality.

We specialize in delivering high-precision, robust, and manufacturable designs for both Press Tools and Injection Moulds, ensuring your production runs smoothly from the first cycle.

Why Partner with APJ Engineering Design Works for Design?

1. Expert-Driven Precision Engineering

- Our team of experienced engineers utilizes cutting-edge CAD/CAM software and adheres to the strictest international standards. We don't just create a design; we engineer a solution optimized for performance and longevity.

2. Specialized Focus Areas

- Press Tool Design:
- Progressive Dies & Tandem Dies: Optimized strip layouts for maximum material utilization and minimal scrap.
- Deep Draw, Forming, & Trimming Tools: Precision calculation for spring-back compensation and material flow to achieve exact component geometry.
- Jigs & Fixtures: Designed for flawless component assembly and inspection.
- Injection Mould Design:
- Single/Multi-Cavity Moulds: Balancing, cooling, and gate location optimization for consistent part quality and reduced cycle times.

3. Focus on Manufacturability (DFM)

- Reduced Machining Time: Simplified and intelligent geometry reduces tool-making lead time.
- Minimizing Maintenance: Designs incorporate standard parts and modular concepts for easy upkeep.
- Optimized Cycle Times: Through advanced simulations of forming and cooling processes.

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