

SimTech™ Injection Molding Simulator - Interactive Learning



Revolutionize the way you or your employees train with Paulson's SimTech™ Injection Molding Machine simulator.

Professional airline pilots begin their flight training with a flight simulator before ever taking to the air. It's a key foundational step in order to achieve and maintain proficiency in the operation of an airplane without risk to person or property. In this same way, Paulson's SimTech™ Injection Molding Machine Simulator provides a cost-effective way for injection molding technicians and machine operators to practice machine set-ups and solve molded part problems without risk to the mold, wasting material or damage to the machine. With molding simulation, you can practice and refine your skills in a variety of different molding scenarios that will immediately expand your molding capabilities. SimTech has all of the machine controls found on modern molding machines and allows the user to choose their plastic, part, and machine size from the database.

Every calculation has been painstakingly thought out by the Paulson developers and based on decades of injection molding experience. Never before has a dynamic training tool such as this been available to the plastics industry. Now Plant Managers can increase the number of molding experts in their facility in a matter of days with Paulson's powerful, proprietary, and exclusive molding machine simulator.

SimTech easily bridges the gap between training courses and real-world production floor activity. For a fraction of the cost of using actual molding machines, you can dramatically increase your employees' molding knowledge and skills. So molders, train like an airline pilot and become proficient in molding with SimTech before ever operating an actual machine. And, when you do, you'll be the plant floor expert.

"An incredible online tool where our team can practice and test skills learned in classroom or online training."

—Dymotek

"SimTech™ is amazing! It's helped me strengthen my molding skills without making a mess of the plant. Everyone learning molding or wanting to get better at it should use this tool."

—MCM



Paulson
SimTech™ Simulator

- > **Web-based**
- > **Self-paced**
- > **Easy to Use**
- > **Reinforces Skills**
- > **Applications for Individual and Team Competitions**

SimTech™ Features & Benefits

What is SimTech™?

- > Injection molding machine simulator (think Flight Simulator for Injection Molding)
- > Based on physics and mathematics—*not* ruled-based
- > Has over 26 million calculations

What Can SimTech™ Do?

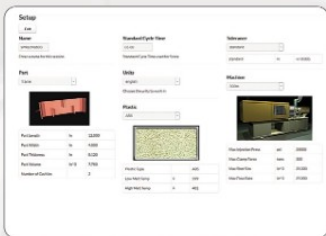
- > Runs a cycle in 1-2 seconds
- > Includes 22 fully-functioning molding machine controls, including Velocity-to-Pressure Transfer (VPT)
- > Reports 8 of the most common part problems from molding conditions
- > Provides employees with "at-the-machine" skills training without:
 - Wasting machine time
 - Wasting plastic
 - Risking damage to the machine or mold
- > Students apply what they have learned after taking training modules
- > Next step in the training process to fully understand scientific molding
- > Interactive
- > Units can be either US (English) or SI (Metric)
- > Turns learning into a challenging "game"





A screenshot of the 'Session History' table in the SimTech software. The table has columns for 'Session', 'Name', 'Units', 'Cycles', and 'Hours'. It lists multiple sessions with corresponding data points.

Session	Name	Units	Cycles	Hours
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“SimTech™ challenges our employees to learn and excel in their field. We’ve noticed that our technicians are more methodical when they are working through problems and communicate with each other more effectively in order to successfully process and make a better part. Jones Plastic participates in Paulson’s monthly SimTech Injection Molding Challenges and we give our employees cash incentives for the top 3 Technicians that complete all of the challenges. This friendly competition has really enhanced our current Paulson training, not to mention how excited our team gets when each new monthly challenge opens so they can see who will top the leaderboard. We truly think SimTech is an outstanding program.”

—Jones Plastic Engineering LLC

Sign up TODAY for a hands-on system demonstration by calling **1-800-826-1901.**

SimTech™ Features & Benefits (continued)

Why do I need it?

- > Safe way for employees to apply what they have learned and improve their problem-solving skills without wasting valuable machine time, plastic, or damage to the machine or mold
- > Dramatically increases your employees molding knowledge by applying what they have learned
- > Can create a competitive “game-like” environment which motivates people to learn
- > You can test potential new hirers on their knowledge and skills with problem solving exercises
- > You can test potential candidates for promotions

SimTech™ “FreeMold” vs. Lab Lessons

- > SimTech™ has two different modes of operation, FreeMold and Lab Lessons.
- > “FreeMold” operation lets *you* decide your own set-up by choosing your machine size, plastic, mold and dimensional tolerance from the SimTech database. You can set up scenarios for your employees to solve specific molding problems, or just optimize a cycle.
- > Lab Lessons are pre-defined lessons that Paulson has created which are assigned to your personnel to target specific areas of learning. They are designed to be taken after an interactive training module to let the student apply what they have learned.

How is SimTech™ different than Skillbuilder™?

- > Although SimTech™ and Skillbuilder™ are similar in that they are both an injection molding machine simulator, they serve different purposes.
- > Skillbuilder is a simplified version of SimTech. Pre-programmed lessons guide the student along a specific path to address a pre-defined problem. Skillbuilder serves as the introduction to the use of SimTech.
- > SimTech (using Paulson’s lab lessons) allows students to use their molding knowledge to improve machine set-ups and solve molded part problems by making machine control setting changes, cycling the machine, and then analyzing the cycle results. With SimTech, managers can also set up their own problem scenarios for employees to solve.

How do I complete a Lab Lesson?

- > Each lab lesson description states the machine and part specifications that must be met to successfully complete a lesson.



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