

Injection Molder

About	Plastic injection molders inject hot plastic under high pressure into mold cavities to create solid parts. The Garage has a plastic injection molder for small injection molding production runs with manual part removal. It can inject 100 mL of plastic at temperatures up to 430°C.
Category	Plastics Fabrication
Location	Back Room
Brand /Model	Morgan Press Model G-100T
Status	AVAILABLE
Materials	• Polypropylene (PP) • Polyethylene (HDPE & LDPE) • Polycarbonate (PC) • Polyurethane (TPU) • Non-toxic thermoplastics



Standard Operating Procedure

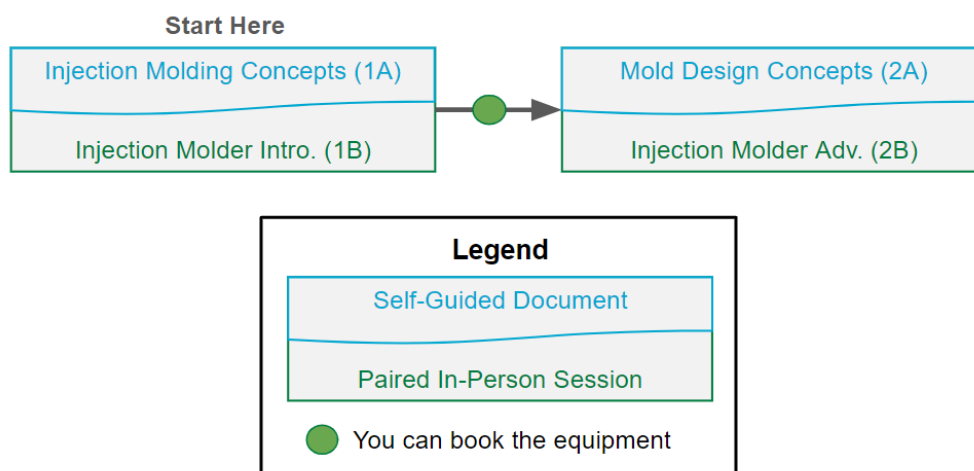


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Training

Injection molder training begins with an introduction to injection molding. After basic operation is understood, training expands to explore mold design & making, and advanced materials. The injection molder training flowchart outlines the training fields and levels.



Injection Molder Training Flowchart

Sign up for training here: [Training Registration Calendar](#)

Training	Type	Time Estimate	Prerequisites	Checklist/Document	Models	Other
Injection Molder - 1A Fundamentals	SELF-GUIDED DOCUMENT	0.5 hrs.	None	Self-Guided Training Document (1A):	N/A	Material Specifications:
Injection Molder - 1B Introduction	ON-MACHINE	1.5 hrs.	Injection Molder - 1A Fundamentals	Training Checklist: Training Script: Molding Plan: (Choose preferred format) PDF: Doc: Sheet:	- Upper Mold Files: - Upper Mold Half.stl - Upper Mold Half.step - Upper Mold Half.f3d - Lower Mold Files: - Lower Mold Half.f3d - Lower Mold Half.step - Lower Mold Half.stl	N/A
Injection Molder - 2A Mold Design Concepts	SELF-GUIDED DOCUMENT	1 hr.	Injection Molder - 1B Introduction	Self-Guided Training Document (2A):	TopMUD.stl BottomMUD.stl Morgan Press 3D Model by Alexander Numann	Machine Dimensions:
Injection Molder - 2B Advanced	ON-MACHINE	1.5 hrs.	Injection Molder - 2A Mold Design Concepts	Training Checklist: Training Script: Molding Plan: (Choose preferred format) PDF: Doc: Sheet:	Training 2D Mold Setup.f3d	N/A

Top MUD Frame:	3D Printed Mold Top:
◦ Top MUD . f 3d ◦ Top MUD . step ◦ Top MUD . stl	◦ 3D Printed Mold Top . f 3d ◦ 3D Printed Mold Top . step ◦ 3D Printed Mold Top . stl

Bottom MUD Frame:	3D Printed Mold Bottom:
◦ Bottom MUD . f 3d ◦ Bottom MUD . step ◦ Bottom MUD . stl	◦ 3D Printed Mold Bottom . f 3d ◦ 3D Printed Mold Bottom . step ◦ 3D Printed Mold Bottom . stl

Documentation



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Safety Data Sheets	N/A
Hazard Assessments	

Application Resources	Mold Design Guide Molding Plan Template: <i>(Choose preferred format)</i> • PDF: • Doc: • Sheet: Material Specifications: 3D Printed Molds:
• Manufacturer's Manuals	