



Automatic
Feed, Inject,
Eject



10" Touch
Screen User
Interface



Made in USA

Price under \$15K - Most affordable full-automatic injection machine ever
Weight under 250 lbs - The lightest full-automatic injection machine ever
Footprint under 450 sq-in - The smallest full-automatic injection machine ever
Injection volume is 1.83 cu-in - Enough shot volume to have good size parts

	SAE	Metric
Piston Dia [in / cm]	1	2.54
Injection Volume [cu-in / cu-cm]	1.83	30
Injection Pressure [PSI / BAR]	5000	345
Clamping Force [lbs / tons]	11023	5
Opening Stroke [in / cm]	6	15.24
Ejector Stroke [in / cm]	3	7.62
Weight [lbs / kgs]	250	113
Max Mold Size [in / cm]	4.8" (W) X 6.0" (H)	12.19cm (W) X 15.24cm (H)
Min Mold Height [in / cm]	4	10.2
Machine Dimensions [in / cm]	43" (L) X 10" (W) X 15" (H)	109cm (L) X 25.4cm (W) X 38cm (H)
Max Processing temp [F / C]	600	315
Shipping Crate Dimensions [in / cm]	48" (L) X 16" (W) X 19" (H)	122cm (L) X 40.6cm (W) X 48.3cm (H)
Steel Bar Frame Diameter [in / cm]	1	2.54
Power Supply [V]	115	
Heating Power [W]	1250	
Plastic Materials for Injection	HDPE, PP, TPO, PS, ABS...	
Warranty	1 year	

Dream. Design. Make Now.



APSX-PIM

Full-Automatic Electric Desktop Injection Molding Machine

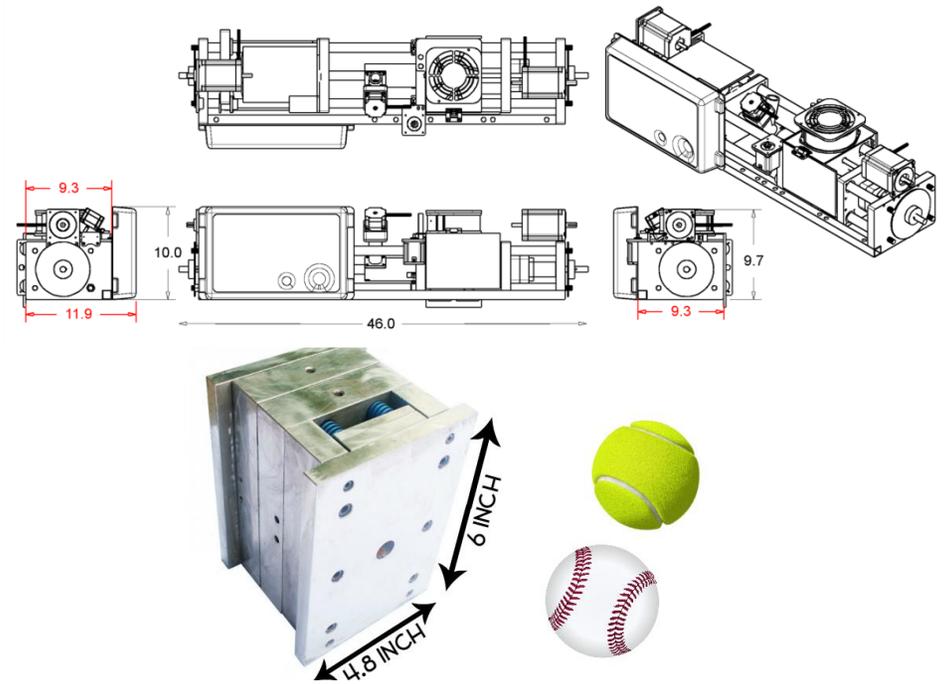
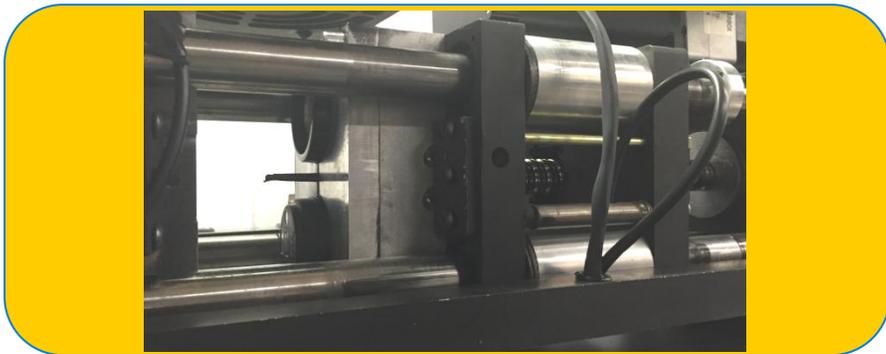
WHO NEEDS THIS MACHINE?

Full-time or part-time CNC machinists, product design studios, high tech medical equipment manufacturers, mold manufacturers, injection molders, engineering and technical schools and DIY hobbyists can benefit from this machine. The main benefits are shorter lead-time, repeatability, impact and wear resistant parts, lowest cost possible for the long term, quality surface finish.

APSX-PIM works by compressing the spring to create the injection pressure and by injecting the melted material into the aluminum mold. This small plastic injection molding machine is easy to setup and operate as fully automatic. APSX-PIM solution usually costs less than typical conventional molds alone. Instead of getting the prototypes developed by 3rd party plastic injection molders, you can do-it-yourself with a low-risk and low-cost alternative.

The idea is that it is AFFORDABLE while it also DOES THE JOB. It is purposely designed to make plastic or metal injection molding cost effective and easy to apply when the quantities are low for prototyping, testing, new product development, and low-volume part production.

- It is compact and light weight
- Works with 110V wall outlet
- No need for water supply for cooling
- Full automatic with precision sensors
- Electronic temperature control
- 10" touch screen tablet control panel



APSX-PIM Design Considerations

Small Size without the Compromise - a real injection machine without the typical compromises of desktop injection presses. The APSX-PIM can be moved into nearly any workbench and requires only basic 115VAC voltage to operate, but has the ability to make parts much more than a rough draft prototype plastic part.

Affordable Precision and Repeatability – smaller doesn't mean less capable. The APSX-PIM uses the latest available technology for precision and repeatability. A state of the art precision sensors combined with direct-drive ballscrews and a precision microstepping drive system that offers superior performance compared to typical desktop injection presses built.

Flowrate Control – a precise movement sensor offers the accuracy and sensitivity needed for controlling the injection amount while adjusting the plastic flowrate through the nozzle valve. This happens without restricting material choices.

3D Printed Molds – the ability to print the molds in a 3D printer and use our standard mold templates gives you much more flexibility, speed and cost reduction than any other small injection machines.