

WORLD'S FIRST AUTOMATIC DESKTOP INJECTION MOLDING MACHINE

WHAT IS APSX-PIM?

Small Size without the Compromise - a real injection machine without the typical compromises of desktop injection presses. The APSX-PIM is an automated injection molding machine and has the ability to make final quality plastic parts since 2017.


WHAT DOES THE APSX-PIM SOLVE?


The APSX-PIM that makes plastic injection molding affordable and easy for all. The APSX-PIM is an alternative to the traditionally expensive, overpowered and large injection molding machines used for production, R&D, prototyping, education. It is a perfect recipe for sustainable manufacturing.


WHY USE APSX-PIM?

Wide range of plastic and MIM material range
Compact size: 4 ft X 1 ft footprint
Costs less than a conventional mold costs
3D printed molds and bio-plastics can be used

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APSX-PIM Injection Machine
Desktop Size

APSX-PIM
INJECTION MACHINE



REAL PARTS IN ONE DAY

There is another way

**APSX Machines*

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INSTALLATION?

The start up process is very simple: The machine is already pre-assembled. Open the crate, place the APSX-PIM on a desk or stand, plug and start using.

Content of the crate:

- APSX-PIM Injection Machine
- Tablet PC
- Test mold (installed)
- 2 lbs of PP pellets
- APSX INJECTION software (installed)

APSX-PIM SPECIFICATIONS

KEY FEATURES

Compact design (4 ft by 1 ft footprint)
Strong body structure with stainless steel, hard anodized aluminum, and bronze parts
All electric and no water-coolant system
Full automatic with precision sensors
Electronic temperature control system
User touch screen for operational control

KEY SPECS

Injection Volume: 1.83 cu-in (30 cu-cm)
Max Processing Temperature: 600 F (315 C)
Mold Size: 4.8" X 6.0" (12.19 cm X 15.24 cm)
Machine Dimensions:
43" X 10" X 15" (109 X 25 X 38 cm)
Tie Bar Top Clearance: 5" (12.7 cm)
Min. Power Supply: 115V
Max Heating Power: 1250W
Warranty: 1 year
Materials:
Acetal, ABS, PC/ABS, Nylon, Polypropylene (PP), Polyethylene (PE), Thermoplastic Polyolefin (TPO), Thermoplastic elastomers (TPE) and others.



APSX LLC
ADVANCE PRODUCTION SOLUTIONS



Cycle Time (AVG)

RUN

60 seconds

AT AVERAGE
1 MINUTE CYCLE TIME

The average cycle time is between 45 secs to 90 secs depending on the plastic and the part characteristics.

APSX-PIM MATERIAL GUIDE

Melt Flow Rate (MFR) based on the ASTM D1238 (230C/2.16kg) test procedure in grams / 10 minutes: APSX-PIM likes to have a material with an MFR higher than 15. The higher it is, the better.

Polypropylene (PP) is great most of the time. For an ABS like material, you can try glass filled Polypropylene (PP-GF). ABS needs "drying", but PP does not. HDPE, TPE and TPO are also other user friendly choices.

Thin walls: Go with a high flow material such as Nylon.

Strength: Want to replace some metal parts in your application and need a strong plastic, you may want to go with a high strength material such as Delrin (Acetal). If you need a clear appearance, you can try Polycarbonate (PC), but chemical resistance would be an issue.

APSX SUPPORT CENTER

apsx.com/injection-molding-support