#### **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 l ft footprint Costs less than a conventional mold costs 3D printed molds and bio-plastics can be used

## **OUR CONTACT**



616-784-1756 INFO@BURTONPRECISION.COM

## SCHEDULE A SHOWROOM VISIT

apsx@burtonprecision .com

MACHINE

APSX-PIM Injection Machine Desktop Size

HPSX-PIM

# REAL PARTS IN ONE DAY

There is another way \*APSX Machines

www.apsx.com



# 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 SUPPORT CENTER**

apsx.com/injection-molding-support

## 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),

Acetal, ABS, PC/ABS, Nylon, Polypropylene (PP), Polyethylene (PE), Thermoplastic Polyolefin (TPO), Thermoplastic elastomers (TPE) and others.



Cycle Time (AVG)

## 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.