

## ABOUT THE MACHINE

With 6 tons of clamping force the PI-12000 machine is the largest electronic servomotor driven hot stamping and heat transfer press in our line. It can decorate up to a 16 inch by 16 inch area with variable pressure ranging from 314 lbs to 12,000 lbs. The servos and computer controllers give the machine unsurpassed accuracy and dramatically reduced set up time. Setting up the press has been simplified to key pad entries of precision distances, speeds and times. During operation, head stroke lengths can be varied in increments as small as .0001 inch without any mechanical adjustments. Multi-stage upstroke and downstroke speeds are fully user programmable. The basic press comes equipped with motor driven foil advance and OSHA compliant hand triggers. Options include servo label registration devices, turntables, and full automatic loading and unloading equipment. Complete tooling solutions installed and tested are available from Permادur Industries.

A revolutionary and unique feature of the PI-12000 is the inclusion of the Permادur Industries Sensabot Technology. In this mode of operation, the press operates to a precise pre-defined pressure rather than distance. The pressure is entered through the operator interface and can range from 314 lbs to 12000 lbs. This feature totally eliminates the traditional dependence on uniform parts thickness for high quality hot stamping results. This feature is accomplished by monitoring the servo loops using high speed digital signal processors and constantly controlling the current while monitoring the reflected force applied to the lead screw by the part to be printed. Print pressures as low as 1 lb can be controlled with the optional strain gage feedback package.

Since the advent of ISO certification, companies have been more conscious of process quantification and recording. The PI-12000 allows exact record keeping of all process parameters. Upstroke speeds, dwell times, and print parameters are entered and can be read back in units of inches per minute, milliseconds, and pounds of force. Ethernet connectivity is standard on all Permادur machines and interfaces are available for most factory floor data logging and communication systems, as well as most popular networks.

## FEATURES

**Easy to use operator control panel** allows precise and repeatable control over all aspects of the machine cycle which are critical for fine printing.

**Simple mechanical design** and logical set-up controls dramatically reduces the learning curve for new operators and technicians.

**Rugged Construction** maintains high reliability, rigidity and little maintenance.

**Fully adjustable foil/label guide bars** make tracking adjustments easy.

**Ball bushings and hardened rails** are used on all linear motions.

**ENERGY EFFICIENT !!! NO COMPRESSED AIR REQUIRED.**

**Technical Support**, installation, training, tooling and field service is provided by skilled and experienced engineers and technicians at Permادur Industries.

**Extensive standard warranty** covers all machine components for 6 months with additional warranties of up to 5 years on certain electrical and mechanical parts.

## SPECIFICATIONS

Platen size	16 x 16 inches
Stroke length	5 inches
Throat depth	18 inches
Maximum opening	30 inches
Pressure	50 to 12000 lbs
Head up/down speed	200 inches per minute
Approximate dimensions	72 x 48 x 60 inches
Electrical requirements	208 vac, 3ph, 10 amp
Shipping weight	2000 lb

## PERMADUR INDUSTRIES

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## THE PI 12000 SERVO DRIVEN HOT STAMPING PRESS

Programmable  
pressure from  
314 to 12,000  
lbs.

Only works to  
required  
pressure.

.0001 Stroke  
resolution

Quiet - no  
compressed air.

Energy efficient

Pays for itself !



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