

ABOUT THE MACHINE

The team of engineers, designers and technicians at Permador are the original inventors and patentees of multi-axis servo control of decorating machines for items of irregular shape utilizing hot stamping, heat transfer and silk screening. Other machine builders have tried to copy the performance, features, ease of use and extreme high quality printing results of the original patented machine but few have succeeded. Our employees have been building decorating machines since 1976 and servo controlled decorating machines since 1982 with the patenting of the original "Apparatus and Method for Decorating articles of non-circular cross Section" (Meador; pat # 4,469,022 & 4,480,069). Since then the designs of our machines have evolved by constant contact with the end users of our machines while working closely with the product designers, packaging managers, engineers and technicians who ultimately are responsible for delivering the decorated product.

The Permabot P3R is the most up to date version of this proven technology. Manufactured by the original inventors, the Permabot machine utilizes the most cost effective, reliable and user friendly industrial servo controls systems available.

All aspects of the print cycle are under full control and easily accessible to the user. Parameters are presented on the touch screen display in easy to understand units of inches, inches per minute, milliseconds and pounds. Learning a new motion profile for non-round parts is completely done using the front panel controls with the optional learning fixtures for flat die or roller die. Shimming modes actually step through the motions of printing without contacting the die for easy determination of where to "shim" the motion profile to compensate for part and tooling anomalies. For peripheral decorating of round items all that's needed is a tool to hold the part and to enter the diameter of the part, the length of print and the print speed desired.

Hundreds of set-ups can be saved on a Permabot. Password protection is available to prevent unauthorized access to sensitive set-up variables. All Permador machines are modem-ready for direct connection to our factory programmers for diagnostics, upgrades and program modifications to suit your needs. Interfaces to upstream and downstream robotics are available off the shelf in versions ranging from simple I/O handshake to full ethernet hosting.

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.

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

Technical Support, installation, training tooling and field service is provided by skilled and experienced engineers and technicians at Permador 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

X Stroke length	15 inches
Y Stroke length	5 inches
Maxi Deco width	9 inches
Axis speeds	up to 40 inches per second
Axis resolutions	.00002 (x) .00001 (y) .002 deg(z)
Approx. dimensions	72 x 72 x 48 inches
Electrical requirements	208 vac, 3ph, 10 amp
Shipping weight	1347 lb (crated)

PERMADOR INDUSTRIES

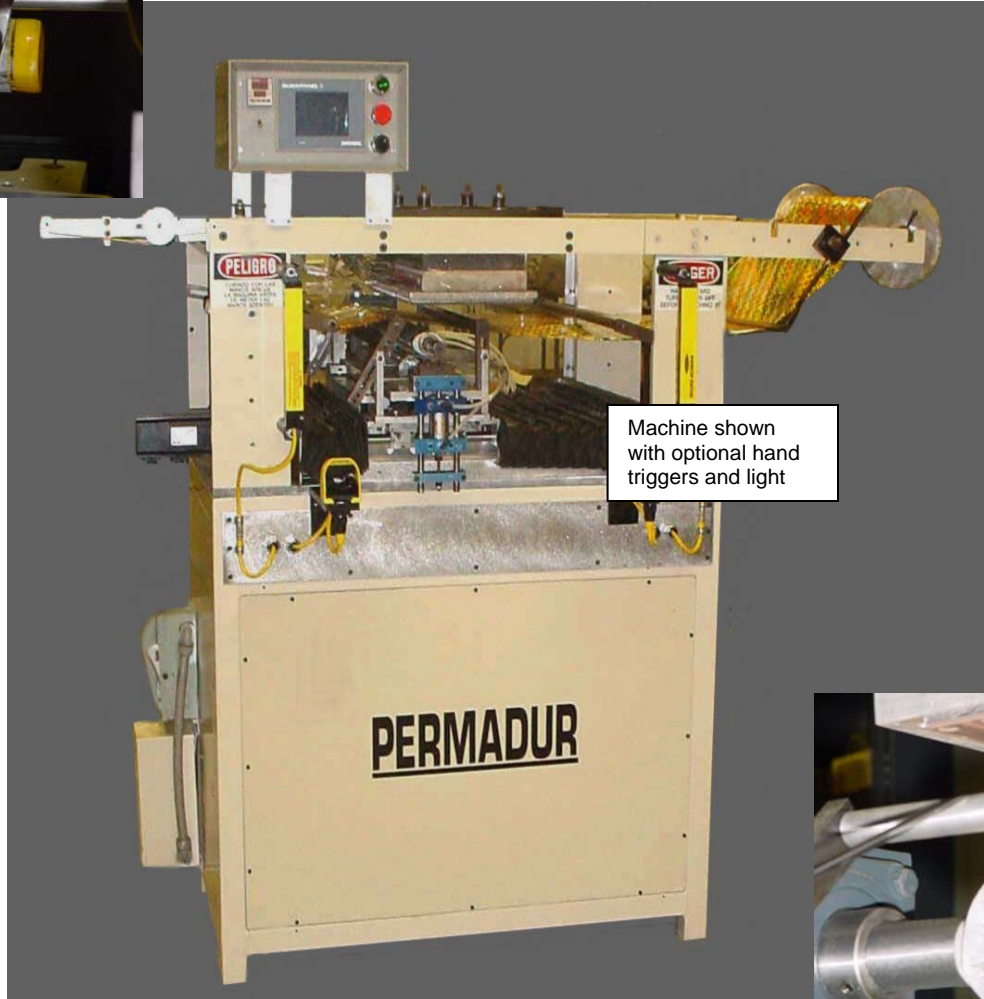
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FROM THE INVENTORS OF MULTI-AXIS SERVO DECORATING
MACHINES -

THE PERMABOT P3R



- NON-ROUND ROLL ON PERIPHERAL DECORATING
- FLAT DIE OR ROLLER DIES
- FULL WRAP GRAPHICS OR SIMPLE BANDS
- ROUND ROLL ON PERIPHERAL DECORATING
- HOT STAMP OR HEAT TRANSFER
- SELF LEARNING MODE FOR NON-ROUND SHAPES
- OPEN PROGRAMMING ARCHITECTURE
- AMERICAN DESIGNED, MANUFACTURED, AND SUPPORTED