

Technical Bulletin



USR8BX

Hot Stamping and Heat Transfer Machine

The R8BX, designed and manufactured at United Silicone, uses a heated roller to apply decorative foil or heat transfer decals to long, flat or slightly contoured surfaces.

Excellent for application of heat transfer decals

- Ideal for applying large heat transfers or decorative foils to large area part surfaces, □ configured flat or with a slight contour
- A wide range of part sizes can be accommodated
- Front-mounted operator interface
- Machine can accommodate silicone rubber rollers up to 6 inches in diameter, and from 1 to 8 inches long.



As your one source for decorating equipment, tooling and accessories, United Silicone can deliver turnkey hot stamping and heat transfer systems that are designed for your specifications. We also offer the industry's most complete line of tooling and supplies, designed to optimize the performance of your decorating equipment.

ITW United Silicone

DESIGNERS AND MANUFACTURERS OF HOT STAMP AND HEAT TRANSFER DECORATING SYSTEMS AND SUPPLIES

Vertical, Roll-on and Peripheral Machines

Automated Systems • Close Tolerance Machines • In-Mold Feed Systems
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OPERATING FEATURES

Ball screw roller carriage drive with variable speed DC motor guided by linear motion bearings for smooth advance and return with independent directional speed control.

Articulating arm roller head assembly is powered by a vertical acting double acting main air cylinder with vernier-calibrated positive stop for precise, measured control of roll-on force and cylinder stroke length. Lever action permits even pressure distribution on contoured parts. The assembly features include a single-speed DC motor drive for roller rotation; stainless steel roller shroud and heater box cover; non-contact thermocouple; and quick-change roller mount.

Frame-mounted WEBTRAK™ heat transfer indexer is versatile, accurate, and reliable to advance pre-printed heat transfers and can be switched to timed hot stamp foil feeding. A DC electric motor produces constant pulling torque for smooth advance and reliable control for efficient heat transfer or foil utilization. **WEBTRAK™** features two-speed web advance system, micro-adjustable electric eye positioning, quick-release payout and takeup shafts.

High performance micro-processor based controller.

Interlocked safety guarding on three sides and light curtain guarding across the front for operator safety during machine operation. Light curtain beam penetration shuts down all system functions while permitting unobstructed access to the machine front.

Front mounted operator interface terminal features a key pad to provide access to the controller, in addition to decal jog control, and left or right carriage jog. All are optimally designed to facilitate setup and job changes.

CONSTRUCTION FEATURES

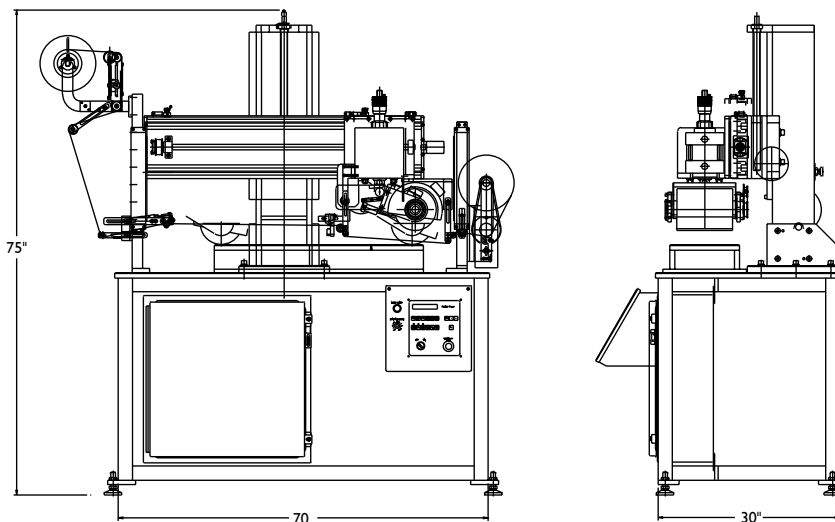
- Rugged steel machine frame for roll-on reliability and repeatability with modular design for easy adaptation to oversize parts.
- Machine components, available painted, flash chrome plated or black oxide coated for long-term corrosion protection.
- Machine base with solid top and leveling feet offers a sturdy base and independent leveling adjustment at all four corners.

OPTIONAL AUXILIARIES

- Rotary Index Tables
- Pneumatic Slide Tables
- X-Y or X-Y-R Positioning Tables

SPECIFICATIONS

Roller Carriage Lateral Travel (Inches):	1-20
Head Stroke (Inches):	0-2
Roller Climb (Inches):	0-.5
Roller Diameter (Inches):	6
Roller Length (Inches):	1-8
Working Height Under Roller (Inches):	0-14
Approximate Dimensions (Inches):	75 High 70 Wide 30 Deep
Electrical Requirement (Volts):	230 1 Phase
Air Requirement (CFM):	3
Air Requirement (PSI):	100
Net Weight (Pounds):	1000



Front View

Side View