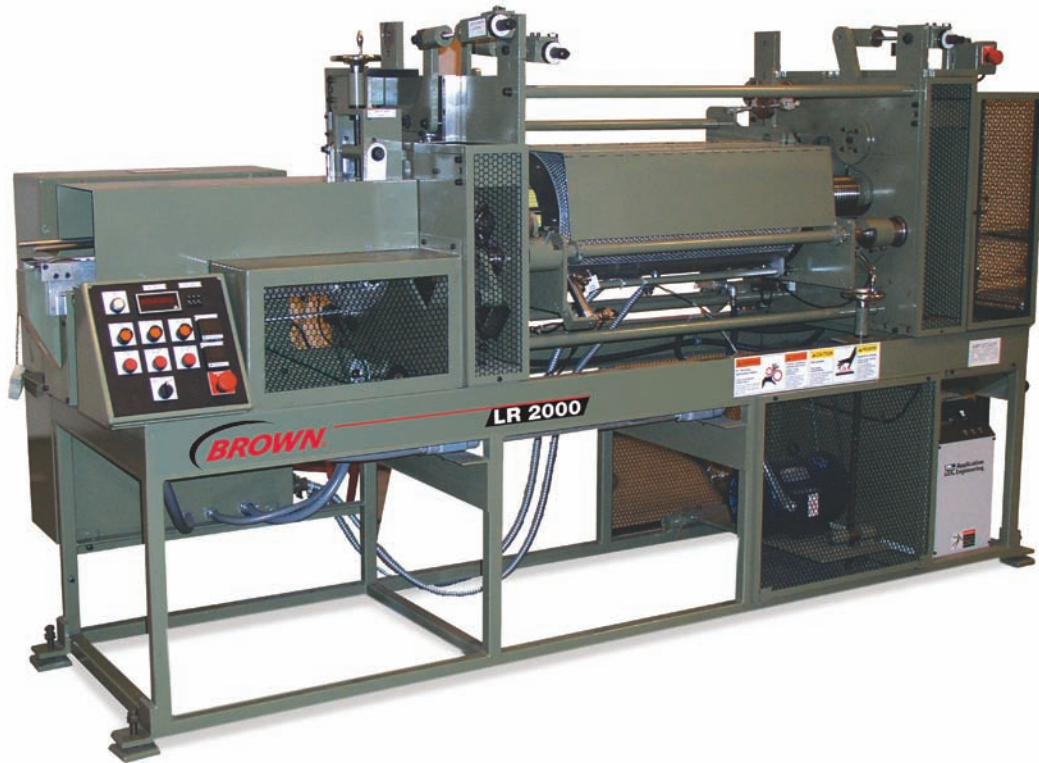
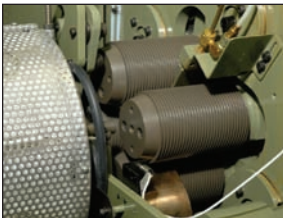




LR-2000 Series Lip Rollers



LR-2000S



Screw Head Assembly



Crowd Roller Assembly

Speed and Quality Through Four Screw Lip Rolling Performance

Brown Machine Model LR-2000 and LR-2000S Lip Rollers are designed to roll or curl lips on round, thermoformed containers. The LR-2000 is designed for products from traditional materials as polystyrene and APET, where the new LR-2000S is designed for products from special materials as polypropylene. These units are operating in production at rates in excess of 3,500 cups per minute in polystyrene and 2,500 cups per minute in polypropylene.

The product is fed onto a conveyor belt which delivers the product to the crowd rollers. The crowd rollers spin the stack of parts and feeds them through the oven section to the curling screws. Multiple curling screws capture the parts, roll the lip, and feed them out of the machine.

The curling screws can be rapidly changed by simply tilting the oven and replacing the curling screw sleeves. The modular type construction provides easy maintenance for removal of the oven, infeed head and discharge screw. Easy access belt sheave allows for a full range of speed changes. All this allows for fast product-to-product changes over time.

The result of this machine design provides a high quality lip rolling performance at a high speed.

Safety Features

- Guards. Designed to provide high visibility and easy access for operator safety.
- Safety Tags. Bilingual with pictographic tags are standard.
- Flanged disconnect on electrical enclosure.
- Main Electrical Disconnect. Has Padlock.
- Stop Buttons. Large red palm stop buttons are standard. When depressed, they lock in the off position and must be pulled and rotated back into a reset position.

Lip Roller Options

- Full Enclosed Guard Package with 8" Step to Allow Easy Access to Oven
- CE & CSA Approved
- Air Regulator and Nozzle
- Independent Infeed Conveyor
- Product Detection Photo Eye
- Casters on the Mainframe
- Curling Screws (Not Included with Machine)
- Spare Parts Packages
- UL / CE / CSA / HSE Approval Available
- International Voltages Available
- Spare Parts Kits
- Start-Up and Training
- Custom Options

LR-2000 Series Lip Rollers

Specifications	Model LR-2000	Model LR-2000S
Direction	Left or Right hand operation	Left or Right hand operation
Drive	5 hp (3.73 kW) Variable frequency drive	5 hp (3.73 kW) Variable frequency drive
Voltage	480 volts, 3 phase, 60 hertz; primary 120 volts, 1 phase, 60 hertz; secondary	480 volts, 3 phase, 60 hertz; primary 120 volts, 1 phase, 60 hertz; secondary
Temperature Control Unit	AEC YNY-4	AEC YNY-4
Options:		
Screw Thread Length	4" (102mm)	6" (152mm)
Oven Length	32" (813mm)	64" (1626mm)
Oven Control Zones	Two zones	Four zones
Product Diameters	1.75" (44mm) to 3.0" (76mm) - 3 screw configuration 2.0" (51mm) to 5.5" (140mm) - 4 screw configuration	1.75" (44mm) to 3.0" (76mm) - 3 screw configuration 2.0" (51mm) to 5.5" (140mm) - 4 screw configuration
Product per Minute	500 to 3,500	500 to 3,500
Operating Adjustments	Operating speed Oven temperatures Curling screw position Crowd roll position Feed rate (crowd roller angle) Oven guide rod position (intake & exit) Infeed conveyor height Temperature control unit	Operating speed Oven temperatures Curling screw position Crowd roll position Feed rate (crowd roller angle) Oven guide rod position (intake & exit) Infeed conveyor height Temperature control unit
Cup Feed	Manual or Automatic with Brown Transfer Conveyor	Manual or Automatic with Brown Transfer Conveyor

Leadership Through Innovation, Quality and Service

Serving the thermoforming industry since 1952, Brown Machine has earned a reputation for providing the most innovative, durable and dependable plastics equipment in the industry. With engineering and manufacturing capabilities in Beaverton, Michigan, Brown provides equipment, tooling and services to produce a wide range of thermoformed products in the following markets:

- Disposable Cup
- Food Packaging
- Housing
- Point-of-Purchase Packaging
- Material Handling
- Horticultural
- Automotive
- Lid and Plate
- Recreation Equipment
- Appliance

Today our equipment is producing products from a wide range of materials including:

- Polystyrene
- Polyethylene
- PVC
- Polypropylene
- EPS Foam
- Barrier Materials
- APET
- ABS

Globally, Brown Machine totally supports its growing capital equipment business with a full complement of:

- Retrofit Kits
- Service: 24-7
- Remanufacturing
- Parts: 24-7

Continuous Thermoformers

Cut Sheet Thermoformers

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Lip Rolling Systems

Machines for Custom Applications

Tooling, Parts & Service



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A global leader of thermoforming technologies since 1952, Brown Machine LLC engineers and builds a complete standard line of continuous & cut-sheet thermoforming equipment as well as related tooling & peripheral equipment.

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