



LR-5 Lip Roller



Affordable and Reliable Lip Rolling Equipment

Brown Machine Model LR-5 Lip Roller is an entry-level, single screw machine designed to roll or curl lips on round, thermo-plastic containers at the rate of 500 to 2000 units per minute. A customized Brown Transfer Conveyor can feed containers by hand or automatically. Product specific screw and cages permit the Model LR-5 Lip Roller to handle containers from a 2" (51 mm) minimum diameter to a 5" (127 mm) maximum diameter and accommodate different stacking heights.

Nested stacks of containers are fed horizontally into the Model LR-5 Lip Roller and are conveyed through the unit without de-nesting. The crowd roller assembly moves the stack of product through the oven section into the screw and cage assembly.

The heating section preheats the containers utilizing a PID control system. An optional temperature control unity can be used to control the temperature of the water pumped through the cored curling screw.

A curling screw rolls the lip of the containers, which are then discharged into a horizontal trough. The Screw is manually adjustable up and down and in the angled direction via a micro adjustment with reference point. The cage is driven via a flat belt which wraps around the screw and cage.

A variable speed drive permits the unit to be synchronized with various feed sources such as a Brown Machine Trim Press.

The standard Brown Machine Model LR-5 is designed for a 6" (152 mm) screw length.

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 with 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

- Ceramic Oven
- Temperature Control Unit
- Casters on the Mainframe
- Curling Screw and Cage (Not Included with Machine)
- International Voltages
- UL, CE, CSA, & HSE Approvals Available
- Spare Parts Packages
- Start-Up and Tryout Capabilities

Specifications	Model LR-5
Direction	Left or Right hand operation
Drive	1.5 hp Variable frequency drive
Voltage	480 volts, 3 phase, 60 hertz; primary
Temperature Control Unit	Optional
Screw Thread Length	6" (152 mm)
Oven Length	32" (813 mm)
Oven Control Zones	Single zone oven
Product Diameters	2" (51 mm) to 5" (127 mm)
Product per Minute	500 to 2,000
Operating Adjustments	Operating speed Oven temperatures Curling screw position diameter 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

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
- Recreational Equipment
- Appliance

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

- Polystyrene
- Polyethylene
- PVC
- Composites
- Polypropylene
- EPS Foam
- TPO
- Acrylic
- APET
- ABS
- Barrier Materials

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

- Retrofit Kits
- Service: 24-7
- Remanufacturing
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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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