

# Series 2000 Rota-Matic™ Roller Gin and Feeder

## Taking Roller Ginning to the Next Level

Developed in cooperation with the USDA-ARS Southwestern Ginning Laboratory in Mesilla Park, New Mexico, the Lummus Series 2000 Rota-Matic™ Roller Gin and Feeder offers substantially greater capacities (up to three times higher) than previously attainable on both Upland and Extra Long Staple cottons.

### Feeder Features:

- 1-HP variable-speed AC Motor driving feed rollers
- Spiked Cleaning Cylinders (2) with Screens underneath
- Extractor and Reclaimer Saw Cylinders with Rod Grids
- Common Brush Doffer
- 6" Trash Conveyor
- Cotton Slide to Gin Stand
- Feeder Dust Suction
- Drive Guards with hinged, key-locked Access Doors
- Main Drive Motor Mount (for 5-HP motor)
- Rear Supports to floor

### Roller Gin Features

- Full-width power Countershaft
- Adjustable Motor Base (for 50-HP Motor)
- Packing Roll with pivoting Flanged Bearings, each moved by two 3" x 2" Air Cylinders; Packing Roll driven by Poly-Chain Belt Drive from 50-HP Motor (motor not included)
- Stationary Knife
- Belt-driven Rotary Knife moved by two (2) Air Cylinders and driven independently by a 3-HP Motor and 5:1 Gear Reducer
- Ginning Roll Cooling System, featuring Industrial Blower with 5-HP Motor with Fan Base and Inlet, Duct with Plenum Nozzle and Air Cutoff
- End Guides and Mounts, and Top Air Control Panel
- Hinged Front Door with Viewing Window and Cleaning Slots (to cover rotary knife and packing roll) with Electromechanical Safety Interlock
- Four (4) White LED Light Fixtures (2 in Seed Discharge and 2 in rear above Plenum)
- Full-width Doffing Chamber with optional rear or bottom Lint Discharge Outlet at bottom rear of gin with Damper to adjust lint flue suction
- Safety Guards with hinged, key-locked Access Doors
- Automatic Process Feed Control Unit, including variable-speed controls for Feeder Rollers, Rotary Knife, and Main Gin Drive and integral temperature sensing system with feedback and alarms to monitor gin roll temperature (see Operator Interface at right)



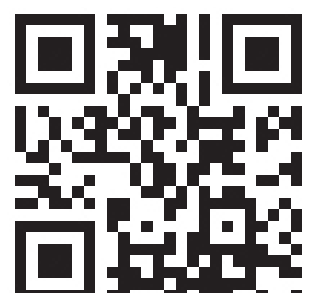
Series 2000 Rota-Matic™ Roller Gin and Feeder  
(multiple patents pending)



Touch-Screen Operator Interface for Feeder/Gin Controls



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