

Wood drawer finishing with UV curing

Improved quality and reduced environmental emissions

Olon Industries uses UV curing to produce high-quality wood drawers on time.

Located in Lexington, NC, Olon Industries (formerly Carolina Drawers), began making wood drawer components in 1992 for furniture and kitchen/bath cabinetry companies. From the beginning they used UV curing for finishing the Birch plywood components, primarily because the 100% solid UV coatings eliminated the need for any environmental permitting. In addition to the environmental benefits, UV curing helps ensure their US operations remain competitive, and producing high-quality products on time.

Drawer components are cut to size, sanded, and then the edges finished on an edge finishing line. Finally, the flat sides are finished on a horizontal flat line. The finish is a clear, 100% solid, 20-50 sheen UV coating that is roll coated onto the part surface.

On the edge finishing line two Heraeus Noblelight microwave-powered, six-inch UV lamps require only 12 inches of space along the conveyor, allowing room for an additional sander and de-nibber. This greatly improved the coating quality of the edge finishing, which now includes de-nibbing between coats and a final de-nibbing.



Benefits

- Eliminated need for environmental permitting
- Improved product quality
- Reduced production costs and lead times

Technical Data

- Roll coated, 100% solids, 20 – 50 sheen, clear coating
- Two, 6-inch microwave-powered UV curing systems for edge curing
- Modular and compact UV lamps allowed space for additional sanding/de-nibbing between coats

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