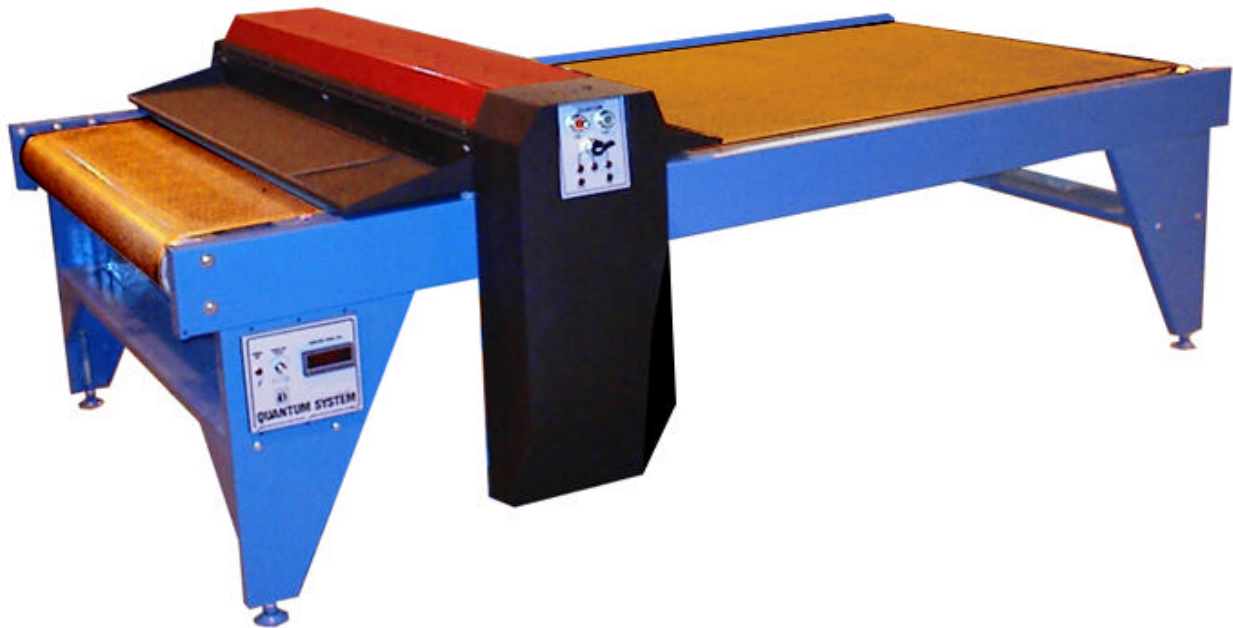


Quantum UV Cure System

Twice the curing speeds for highest production,
with minimal heat build-up in even the most distortion-prone stocks.



Fastest UV curing with half the heat build-up . . .Guaranteed!

The **QUANTUM** is a technological breakthrough in UV drying. It is a revolutionary new high-energy low heat system which more than doubles UV curing capacity. The **QUANTUM** automatically regulates IR initiation and UV energy output to insure effective curing of all UV clear and pigmented coatings.

Our patent pending air cooling system withdraws heat from both sides of the reflector and maintains low temperature throughout the curing unit. The **QUANTUM** eliminates the high maintenance, inefficient water cooling systems.

Now, because of the accelerated high-speed curing capability of the *American M&M* **QUANTUM**, and unique construction, it can instantly cure UV inks on even the most heat

sensitive stocks while reducing heat build-up by one-half, requiring only a single module for most applications.

The unique Bi-modal™ constructions, together with its mercury vapor lamps selectively concentrate IR and UV energy to assure complete, cool and rapid curing. Individual lamp output control allows curing at 300, 200, 150 and even 100 watts per linear inch for curing the widest possible range of substrates, including paper, cardboard, vinyls and plastics.

Bi-modal™ construction and high speed curing are complemented by pressurized air from the chill section during the cure. These three features maintain lowest possible temperatures nearly eliminating heat distortion in even the most heat-sensitive of printed and cured stocks.

Build-in safety interlocks at all openings instantly shut-off power if lifted preventing accidental operator exposure to UV light source.

The **QUANTUM** conveyor features infinitely variable, solid-state speed controls, plus a digital readout of the belt speed. Vacuum holddown keeps sheets from curling or rolling over, and removes ozone and trace volatiles from the shop environment.

Standard Features:

| | |
|-------------------------------------|--|
| → High Rate of Production | Proven twice as fast as any other UV cure system on the market now. Cures many UV inks on conventional substrates (such as paper) as well as on heat-sensitive, distortion prone substrates. |
| → Air-Chill Action | A 1/3-hp blower provides a high-speed air stream, which instantly reduces substrate temperatures by as much as 80°F. Cooler and more effective than other chilling units requiring an external water supply. |
| → Individual Power Settings | 100, 150, 200 or 300 watts per linear inch of lamp to instantly cure UV inks on many types of plastic, glass and metal substrates. |
| → Independent Production Capability | The Quantum UV curing system operates independently to meet the curing demands of all manual, semi-automatic and automatic presses. |
| → Integrated Controls | Start / stop action of the chiller is integrated into the controls of the Quantum UV curing module. |
| → Vacuum Holddown | Safely secures lightweight stocks. Also removes ozone and trace volatiles from the shop area. |
| → Variable-Speed Conveyor | Process prints at all belt speeds from 35 to 100 feet per minute. |
| → Digital Belt Speed Readout | Reveals exact belt speed (in feet per minute) and allows the operator to reset jobs at the proper speed. Saves time when restarting or rerunning similar or identical jobs. |
| → Resomite Belting | Exclusive, nonmetallic, woven mesh belt material resists acids and other chemicals. Easily cleaned. Will not mar stock. |

Specifications (Quantum UV curing module):

| | |
|-------------------------|--|
| • Height | 34" (87.6 cm) |
| • Height Above Belt | 7" (17.8 cm) |
| • Length | 69-3/8" (1.76 meter) |
| • Conveyor Height | 30-1/2" (77.5 cm) |
| • Effective Curing Area | 48" (121.9 cm) |
| • Width | 13" (33cm) |
| • Motor | 1/3 hp, 115 VAC, 60 Hz |
| • Full Load Amps | 6.8 |
| • Blower | 1/3 hp, 115 VAC, 470 cfm at 2" |
| • Output Level Settings | 100, 150, 200 and 300 watts per linear inch of lamp. |



High-pressure blower provides cooling air

Control and read belt speed from the Quantum control panel



Control panel





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