

Holotec GmbH designs, manufactures and installs automated coating machines for holographic and photographic applications. The Holotec Coating Machine (CM) product line is a turnkey solution for surface coating of sensitized gelatin layers on flat glass substrata. Each Coating Machine consists of a granite slab coating table, an instrument tower and the necessary mechanical and electronic equipment. Our machines are designed for coating standard sized glass substrata (0.5 x 0.5 m², 1 x 1 m² and 2 x 1 m²) but can be custom built to suit your specific needs. The complete system is factory tested and shipped to your facility for installation by our engineers. To ensure proper integration into your production environment, we provide thorough, personalized training for your coating laboratory engineers and technicians. Operator and maintenance training are offered as part of the installation process. We have a proven track record of providing quality coating machines and technical support to our customers.



Fig. 1: View of coating system CM05.

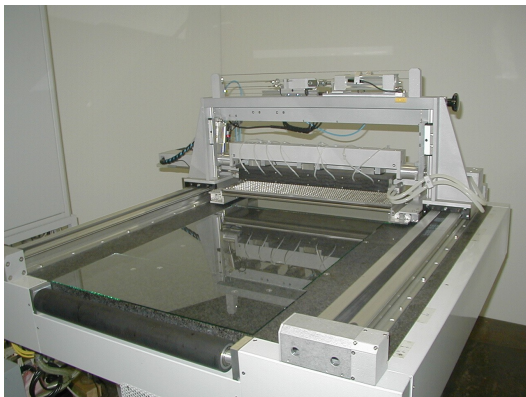


Fig. 2: View of the coating table and nozzle.

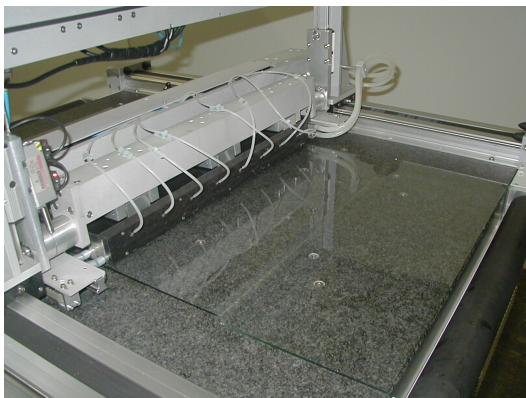


Fig. 3: Coating of a 50 cm by 50 cm glass plate.

SPECIFICATIONS AND IMPORTANT OPERATING ADVANTAGES

- Design flexibility to suit unique coating requirements.
- Heavy-duty construction and industrial quality hardware.
- Ease of operation with emphasis on user safety.
- Temperature controlled cooling/heating system implemented via a set of channels drilled along the width of the granite slab.
- Safe transport and accurate positioning of the glass substrate is achieved via an array of surface air orifices that facilitate an air cushion during transport and vacuum during placement.
- Temperature controlled, fixed-slit, slot nozzle.
- Variable nozzle linear speed for greater coating throughput.
- Automatic water flushing and air purging of the entire system.
- Automatic collection of effluent coating solution.
- Reliable and easy to use partial and full automation modes for controlling the coating process.
- Flexible automation with multiple process and operating modes to adapt to process modifications and changing technology.
- Computer based data acquisition and process control system.
- LabView® based Coater Control software.
- Comprehensive Operational and Maintenance Manual.

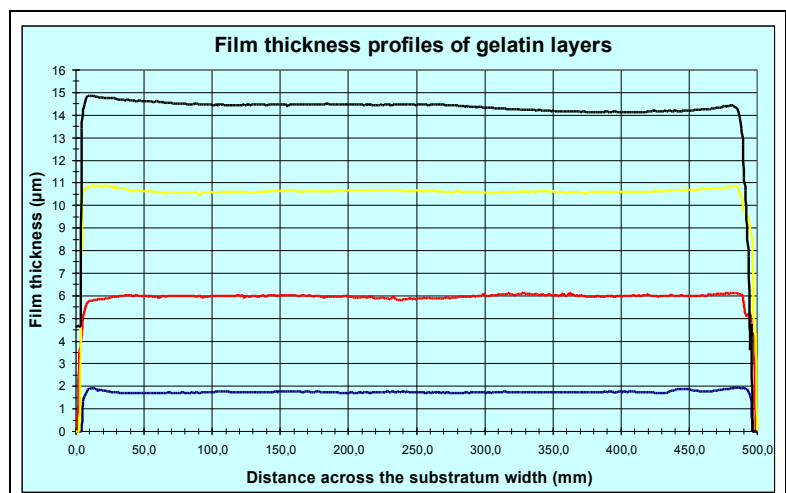


Fig. 4: Representative film thickness profiles of gelatin films.

- Gelatin concentration 2.9 % by weight; Coating speed: 5 mm/s
- Gelatin concentration 3 % by weight; Coating speed: 10 mm/s
- Gelatin concentration 3 % by weight; Coating speed: 5 mm/s
- Gelatin concentration 2.5 % by weight; Coating speed: 5 mm/s