

OPTICS **CC20** Automatic Modular Line for Hard-Coating

Standard machine specifically designed for RX Labs



High quality

Great versatility



High performance treatment for ophthalmic lenses

The CC20 is specifically designed for surface preparation, dip-coating and pre-cure phases on organic substrates in a hard-coating process and is state-of-the-art for optical laboratories

The CC20 line introduces a new concept of modular machines used for hard-coating processing of transparent optical substrates. Its flexibility means that it can meet any production demand.

The basic version can treat 50 lenses/hour or you can reach a capacity of 400 lenses/hour or more with the full-option version. This new philosophy allows you to adjust your investment to match current production requirements.

Starting from the standard version, you can upgrade your existing machine at any moment by adding new coating tanks, primer units, pre-curing sections, automatic handling robots, roller belts and in-line final curing.

Each coating section includes up to four tanks, in order to comply with different coating processes and substrates (tintable, non-tintable, high index, polycarbonate, etc.).

The CC20 system is specially designed for optimal maintainability: the whole coating section is mounted on a cart and can be completely pulled out from the machine for easy tank cleaning and fast filter cartridge installation, without introducing pollution into the machines' environment.



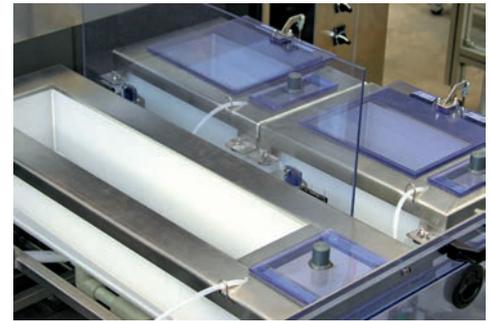
OPTICS CC20 Technical specifications

- Complete in line hard-coating process, including ultrasonic cleaning, coating and pre-curing of lenses
- Self-contained ISO 5 (ex class 100) environment, with temperature and humidity control
- Multiple frequency Fisa ultrasounds in each tank of the cleaning section to ensure effective and homogeneous action on the entire surface of the lens
- Special disposable "Puretainer" cartridges for DI water production
- Extractable coating cart, with individual temperature control and automatic lid for each tank
- Infrared drying stations, for varnish pre-curing
- Fully programmable high stability lift-out system, with several speed profiles to adapt to different shapes and optical substrates
- Several programs, to meet any process automation requirement

Coating tank	Size mm	Volume litres	Capacity lenses / rack
Type A	130 x 500 x 140	12 approx.	28
Type B	130 x 200 x 140	4 approx.	8
Productivity		Racks / h	
One robot configuration		6-10	
Two robot configuration		15-20	

Other technical characteristics

- Single clamp rack with special springs for easy and fast lens insertion. New model to fit every diameter of lens.
- RC01 fully programmable robotic handling unit, designed for ISO 5 (ex class 100) environment. Several programs in order to cover any process request.
- Automatic program selection, at the loading station, by optical sensors or bar code reader.
- Fully programmable lift-out. Several speed profiles. Speeds from 0.20 mm/sec to 50 mm/sec with linear tracking. Total control of varnish thickness for different material shapes.
- Automatic conveyors, at loading and unloading stations either longitudinal or transversal (optional).
- Possibility to connect in-line final curing oven (option).
- Continuous control of the varnish temperature in each tank.
- Automatic solvent refilling system for each coating tank (option).
- Automatic detergent refilling system for each cleaning tank (option).
- Worldwide assistance by the Fisa Group, with total spare parts availability for each component.
- Fisa manufactures every part of the machine (framework, ultrasounds, automation, electronic components, software in our facilities) guaranteeing total quality control of our products.



MCU

In order to know how each basket was processed during all the different stages of the cleaning process, your machine constantly checks and records all essential parameters via the MCU (Machine Controller Unit) and FISA TS (FISA Traceability System).



Example of a CC20 layout

R - Robot	
a - Module ML7	Loading + Cleaning
b - Module MC	Primer
c - Module MP3	Pre-curing
d - Module MC	Top-Coat
e - Module MP3	Pre-curing
f - Module MU	Unloading

