



Leica EM AC20

Automatic Contrasting Instrument
for Electron Microscopy

Contrast and Compare

The Leica EM AC20 is a new generation of instruments, developed in close cooperation with the scientific community, for contrasting ultrathin sections. Within the sealed chamber of the EM AC20, ultrathin sections are automatically contrasted with minimum user interface.

By contrasting up to 20 grids per run, the Leica EM AC20 speeds up laboratory routine and eliminates the tedious and time consuming tasks associated with traditional contrasting methods. Pre-packed solutions (each 200 ml) ensure excellent contrasting results without any user contact to toxic reagents. The instrument uses a

peristaltic pump and non-contact valves which means the reagents travel through nothing but tubing on their way to the chamber where the grids are located.

This equals good results and easy maintenance. At the end of each run, the small volume of used reagents are separated into different waste bottles, thus making disposal easy and less expensive.



Leica EM AC20 designed by Werner Hölbl

The automatic contrasting system Leica EM AC20 features:

- Precipitate-free double contrasting
- Low reagent consumption
- 60 runs with one set of Ultrastains
- Low waste output
- Short washing cycles
- Easy maintenance

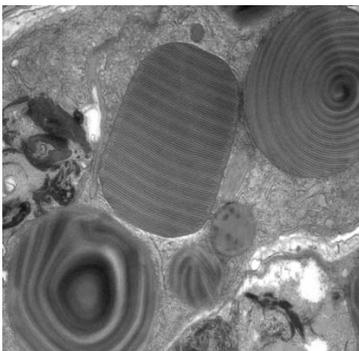
Easy to Use

With the help of the loading jig, up to 20 grids are placed into the grid holder which is then inserted into the contrasting chamber. The chamber is closed with the bayonet lock and the EM AC20 is ready to contrast.

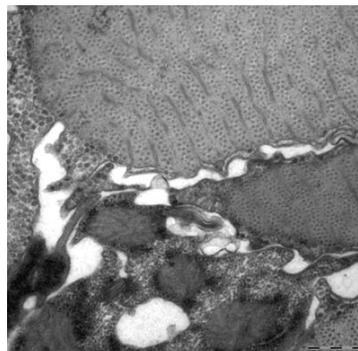
The clearly structured keyboard ensures easy programming of time and temperature for each contrasting step. Up to 10 individual programmes can be stored. A USB port allows transfer of the last contrasting run if a log-book report is required.



The teamwork of sensors and software avoids any user error. Follow the guidelines of the user prompt information on the screen ...press START and the Leica EM AC20 does the rest.



Lamellar structure of large granules of type I in the clitellum region of *Tubifex* sp. (Oligocheata)



Longitudinal muscles of *Tubifex* sp. (Oligocheata)



Loading grids into the contrasting chamber



USB port for data download

Courtesy of
Mag. Daniela Gruber
Cell Imaging and Ultrastructure
Research Life Sciences
University of Vienna

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Leica Microsystems' mission is to be the world's first-choice provider of innovative solutions to our customers' needs for vision, measurement and analysis of microstructures.

Leica, the leading brand for microscopes and scientific instruments, developed from five brand names, all with a long tradition: Wild, Leitz, Reichert, Jung and Cambridge Instruments. Yet Leica symbolizes innovation as well as tradition.

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We provide comprehensive systems and services for clinical histo- and cytopathology applications, biomedical research and industrial quality assurance. Our product range includes instruments, systems and consumables for tissue infiltration and embedding, microtomes and cryostats as well as automated stainers and coverslippers.

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