

Leica EM TP

Tissue Processor for Electron and Light Microscopy Resin Processing



Living up to Life

Introducing the Leica EM TP Resin Processor for EM and LM

With 125 years experience in the manufacture of scientific instruments, Leica has developed a new resin tissue processor, the Leica EM TP. From the wealth of knowledge gained in the fields of histology and electron microscopy the EM TP meets all the needs of todays demanding laboratory. This versatile, very compact instrument can be used for resin processing for electron microscopy (EM) and light microscopy (LM). Reproducibility, the need for a low hazard environment and ease of use were the key reasons for developing the EM TP.

The Leica EM TP consists of a base unit onto which an EM or LM processing outfit can be added. Interchange between EM and LM processing takes only moments.

The latest technology is used for interfacing user and instrument. A simple to use control panel allows data storage of up to 99 programmes, all of which can be named. Reagents can be selected from a reagent list which can be customised by the user. If a mistake is made during programming or selection of a field then the Leica EM TP gives an audible warning and shows on the screen what the error means. Processing can be started immediately or with delay. Programming can also be carried out while the instrument is processing.



Designed by Werner Hölbl

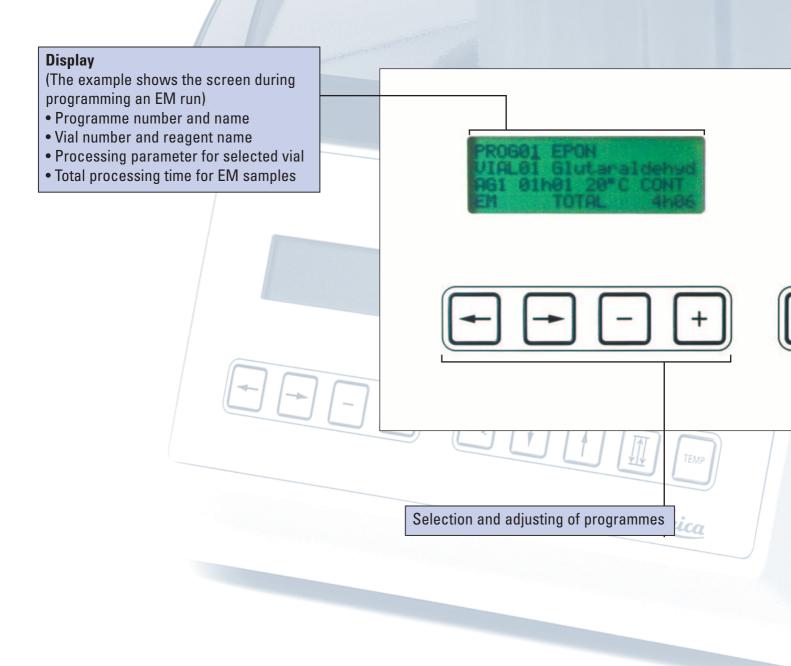
Independent vial seals for each vial provide a stable environment for each reagent. The vials sit in a carousel designed for both EM and LM vials. To provide a safe environment for the user in case of reagent spillage the processing chamber is enclosed. The chamber is also ventilated via a fume extraction system.

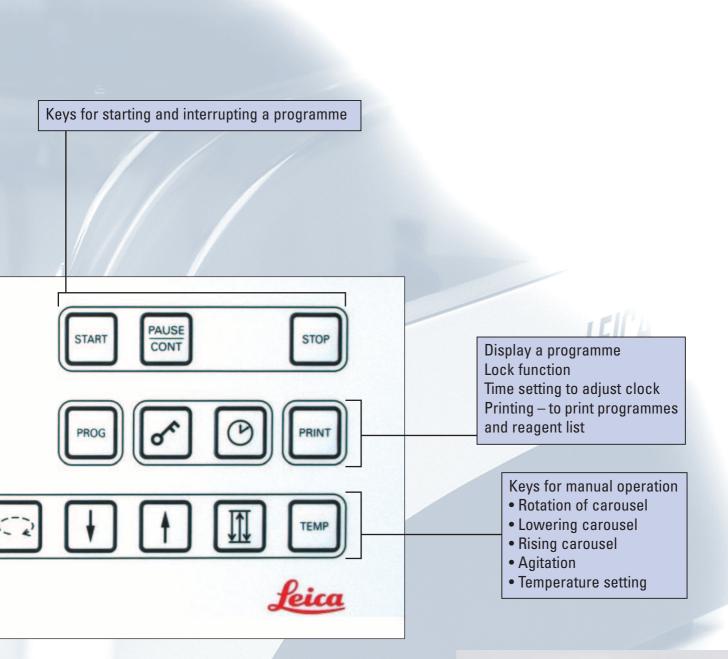
The specimens are supported in various baskets depending upon their size, the mesh varying in accordance with sample size. The baskets are located on an arm which can move vertically up and down to allow agitation when required. The speed of agitation is variable.

For processing at specific temperatures the Leica EM TP has a heater and cooler system allowing temperature control between +4°C and +60°C even during a delayed start or finish. For EM the system also has pre-heat and pre-cool. This means that all reagents coming into contact with the tissue will be at the desired temperature, important for high quality EM processing.

Programming is via a membrane-covered keyboard. A delay and 'time to end' feature makes setting delay times simple.

The programmes are protected by battery back-up and for specimen safety the instrument has a second battery back-up enabling processing to continue through a power shortage. The heater/cooler (H/C) unit closes down but the carousel continues to operate thus preventing the specimens remaining in processing reagents for too long a period and damaging them.







EM Processing

24 polypropylene vials of 20 ml are available to the user for one processing run. The vials are attached to the carousel by a twist fit only.

Reagents can be pre-loaded into the vials attached to the carousel in a fume cupboard. Toxic reagents can be sealed with individual vial caps before taking them over to the Leica EM TP. The heater/cooler (H/C) unit flips back allowing direct access of the carousel to the processing area. The H/C unit has pre-heat and pre-cool thus allowing reagents to be at the correct temperature before coming into contact with the tissue.



H/C unit shown in loading position for safe and convenient access



Processing of EM samples



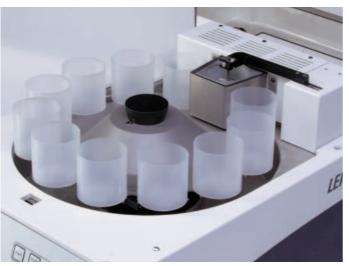
Loading plate and consumable

LM Processing

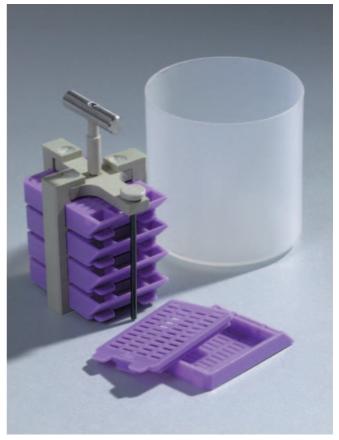
12, 100 ml vials can be twist fitted to the carousel for processing large samples or high volume of specimens into resin. The Leica EM TP has a holder for standard histology cassettes thus allowing very large specimens such as bone to be decalcified and processed. CellSafe holders can also be used for processing.



Moveable H/C unit for safe and easy access of carousel



Processing of LM samples



Cassette holder

"With the user, for the user" Leica Microsystems

Leica Microsystems operates globally in four divisions, where we rank with the market leaders.

• Life Science Division

The Leica Microsystems Life Science Division supports the imaging needs of the scientific community with advanced innovation and technical expertise for the visualization, measurement, and analysis of microstructures. Our strong focus on understanding scientific applications puts Leica Microsystems' customers at the leading edge of science.

• Industry Division

The Leica Microsystems Industry Division's focus is to support customers' pursuit of the highest quality end result. Leica Microsystems provide the best and most innovative imaging systems to see, measure, and analyze the microstructures in routine and research industrial applications, materials science, quality control, forensic science investigation, and educational applications.

• Biosystems Division

The Leica Microsystems Biosystems Division brings histopathology labs and researchers the highest-quality, most comprehensive product range. From patient to pathologist, the range includes the ideal product for each histology step and high-productivity workflow solutions for the entire lab. With complete histology systems featuring innovative automation and Novocastra[™] reagents, Leica Microsystems creates better patient care through rapid turnaround, diagnostic confidence, and close customer collaboration.

Medical Division

The Leica Microsystems Medical Division's focus is to partner with and support surgeons and their care of patients with the highest-quality, most innovative surgical microscope technology today and into the future. The statement by Ernst Leitz in 1907, "with the user, for the user," describes the fruitful collaboration with end users and driving force of innovation at Leica Microsystems. We have developed five brand values to live up to this tradition: Pioneering, High-end Quality, Team Spirit, Dedication to Science, and Continuous Improvement. For us, living up to these values means: Living up to Life.

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