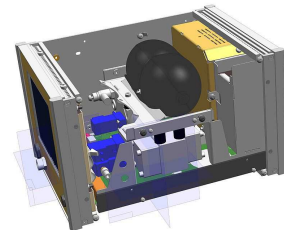


## Microkeratome (electronical scalpel for eye surgery)

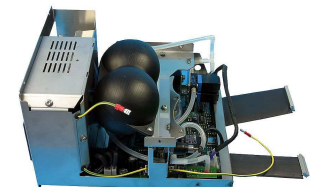
CAD-image



Microkeratome are used in refractive surgery (LASIK) to cut thin flaps of about 0.15 mm thickness in the cornea.

**the task** The control system for the microkeratome is a typical apparatus engineering application. Besides the electronical hardware the software and the mechanical construction where designed by GINOVA also. All requirements for class 2 medical devices as well as for UL and CE have been achieved.

Microkeratome inside-view



### the solution

The control system assures the exact forward motion of the cutting-blade as well as its stable oscillation. A controller specially designed by GINOVA adjusts the vacuum which fixes the handle (scalpel) to the eye.

The software is based on the GINOVA-owned operation system MINIKERNEL. The complete system has passed FDA 510k-submission.

Since 2000 these devices are produced exclusively by GINOVA.

Printer interface



Infrared-adapter for serial interface



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