



FRITZ RUCK
Ophthalmologische Systeme GmbH



PENTASYS 2



Your partner for phaco and vitrectomy





Pentasy 2

The PentaSys 2 is based upon the PentaSys 1 that has been produced and sold over 500 times worldwide.

The modular construction enables each user to adapt the system to meet surgeons' individual needs.

The main goal of the redesign was to increase ease of use and service friendliness as well as decrease the costs associated with disposable accessories. Despite that, the high demands of the Robert Koch Institute have been complied without any compromises being made.



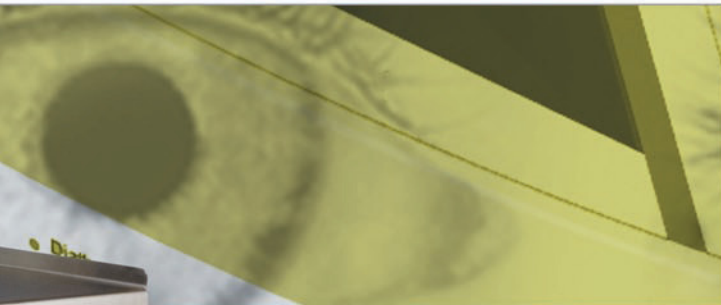
Modules

- Dual pump system (DPS)
- Peristaltic pump (PPS)
- Venturi pump (VPS)
- Phaco: cont, high pulse, cool phaco, bimanual phaco, incision 1.8-3.2 mm
- Diathermy
- Vitrectomy: electric and pneumatic, standard and high speed
- Xenon light source
- Silicone infusion/aspiration
- Intraocular pressure control
- Electric or manual infusion pole
- Internal printer





Choosing the right pump for aspiration is a philosophical question. The PentaSys 2 provides the customer with the option of supplying one system with both pumps. The surgeon can change the aspiration pump any time during surgery, given that he/she has chosen the model DPS. And no accessory change is needed in the event of a pump or segment change.



The clear design makes it possible to prepare the system for surgery very quickly without complications, for even the most unfamiliar of personnel. Up to 15 surgeons can save their individual programme for every step of their surgical procedure. Unlimited changes are possible at any time.

Switching between functions of the system during surgery can be done by non-sterile person via touch screen, by the sterile nurse with a touch pen or by the surgeon through activation of the joystick located on the multifunctional foot switch.

With its small shape, the PentaSys 2 fits even in the smallest of surgical theatres. The smooth surface facilitates very easy cleaning of the system.

The multifunctional foot switch is virtually freely programmable in manifold ways. The surgeon can control all functions ergonomically and to his/her own expectations. Each surgery done with the PentaSys 2 is recorded internally. The data can either be printed for the patient records or retrieved for statistical and scientific purposes.





Technical data

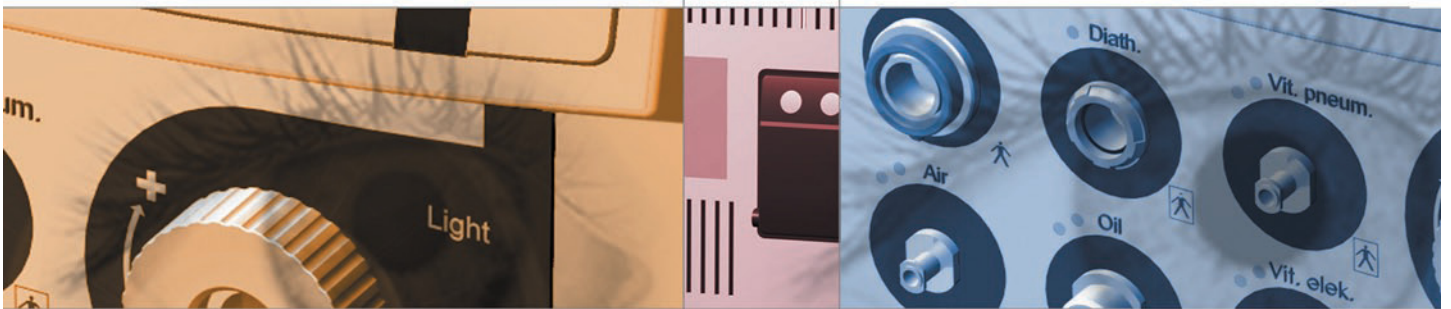
- vacuum venturi 0-650 mmHg
- vacuum peristaltic 0-720 mmHg
- flow 0-120 ml/min
- phaco 40 kHz, 50 W
- pneumatic cutter max. 3000/min
- electric cutter max. 2500/min
- silicone infusion pressure max. 5 bar
- diathermy 2.2 MHz, 15 W

All functions can be controlled linearly and precisely from zero to maximum by the dual linear foot switch.

dimensions: 685 x 310 x 380 mm
weight system: ca. 40 Kg

height trolley: individual 85 to 105 cm
weight trolley: ca. 20 Kg
power supply: 110 – 230 Volt

compressed air 4,5 to 10 bar, 60l/min,
med. quality according to DIN EN 737-3



References



Prof. Esser, St. Elisabeth-Hospital, Cologne

Fritz Ruck is an absolutely reliable partner! They are continually developing while factoring in customers' wishes and they guarantee a reliable service. The system provides a multitude of technical special features and a dual pump system.



Prof. Kirchhof, University of Cologne:

I've been working with Ruck surgery systems for 20 years because of their reliability. I appreciate that Fritz Ruck is continuously developing the system.



Prof. Bartz Schmidt, University of Tübingen:

I like to work with Ruck systems because the wishes, ideas and needs of myself as well as other surgeons are respected during the continuous process of development and improvement of the PentaSys.



Prof. Walter, RWTH Aachen University:

I perform surgery with the PentaSys, because this system gives me a lot of special technical functions. For example, I can switch between venturi and peristaltic pump any time during surgery.

Accessories

Foot switch

Three models are available:

- basic pedal
- with joystick for additional functions
- with additional 4 bumpers

All models completely free programmable for each user



Phaco handle

German product, powerful, strong and reliable. For all surgery:

- standard
- cool phaco
- small incision technology 1.8-2.2 mm
- bimanual phaco 1.6 mm



Vitrectomy cutter

- pneumatic cutter, high-quality 20G, 23G, 25G
- standard (1200 cuts/min)
- high speed (3000 cuts/min)
- electric cutter, high-quality blade, reusable (2500 cuts/min) 20G, 23G



Light fibres

high-quality fibres, only single use,

- straight, bright focus
- wide angle, diffuse illumination
- straight, with additional diathermy function to stop sudden bleeding
- more models available in 20G, 23G, 25G



Disposable articles/Sets

We deliver the tube systems and the other disposable material, permitted in part for day-long use and not only for single use, individually or according to your wishes as a prepackaged, sterile set. The essential components include:

- I/A tube
- cassette (with/without bag)
- bimanual I/A handle
- phaco needle, sleeve, test chamber
- vitrectomy cutter
- light fibres
- IOP set





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