

Overview of the most significant performance characteristics of the software:

- Control of up to 16 ergometers
- Clear representation, intuitive operation
- Integrated patient and analysis database
- Facility for accepting new patients even during a current training session
- The most important data about all patients is always visible
- Immediate access to all relevant additional information (also during a training session)
 - Patient data, diagnosis, preliminary examinations
 - ECG course
 - Stored, older training programs
 - Comparison with other training programs from the same patient
- Recording the complete diagnosis of patients allows an optimum generation, control and tailoring of the individual training program
- Comprehensive individual training definition for every patient
 - Constant pulse
 - Constant load
 - Interval training
 - Individual warm-up and recovery phase definitions for every patient
- Direct modification of training parameters possible at any time by the therapist
- Group training (all patients start at the same time)
- Single training (patients come when they want and train as long as desired)
- Immediate print-out of the current ECG of the patient possible at any time
- Quality assurance:
 - Complete documentation of the entire training process
 - Saving of all the data recorded during training
 - Display of all data in summary and graphic forms
 - Continuous ECG recording (the ECGs of all patients and all training sessions are saved)
- Network capability
- Data saving tool
- GDT interface
- Chip card system

Ergoline Reha System

ERS



Components of the Reha System

For many years Ergoline ergometers have had a reputation for tried and tested technology and stability and they guarantee a most reliable operation, even under endurance stress. The bicycle ergometer *ergoselect Reha*, the hand crank ergometer *ergoselect HK* and treadmill *Treadselect* can be equipped with an ECG as an optional extra and are designed for use with the ERS. The chip card system allows easy assignment of the ergometers, which can also be equipped with a suction system, automatic blood pressure measurement and electrical seat-height adjustment as optional extras. The treadmill *Treadselect* can also optionally be connected via the Elena Box to an ECG.

The configuration of the entire Reha System can be designed to meet precisely your special requirements.

This brief description provides only a superficial overview of the manifold possibilities of our Reha-Systems „ERS“. We should be pleased to demonstrate our system to you in your clinic or to show you a complete system in one of our many reference clinics (of which there are over 285 worldwide).

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The paths to a successful rehabilitation

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Cardiological rehabilitation

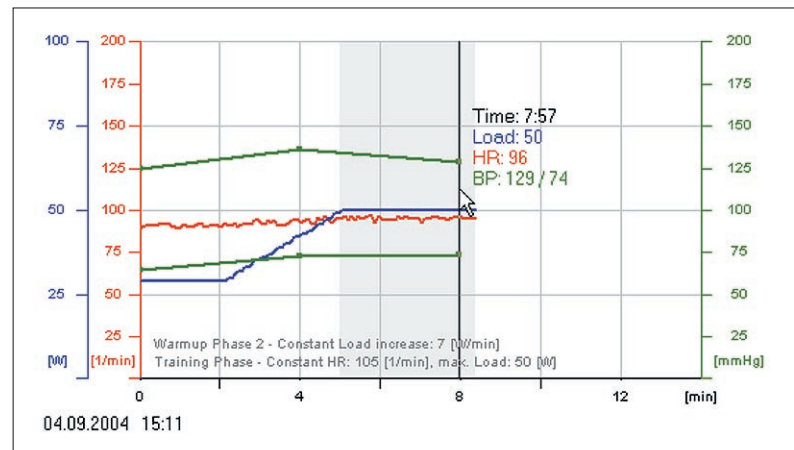


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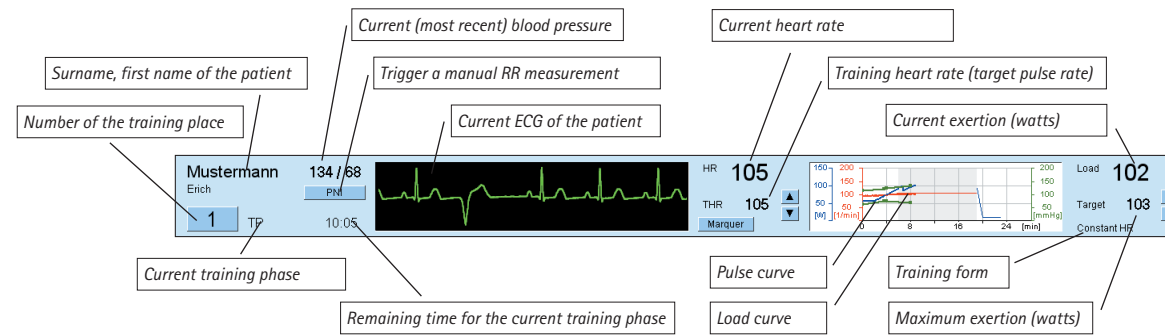
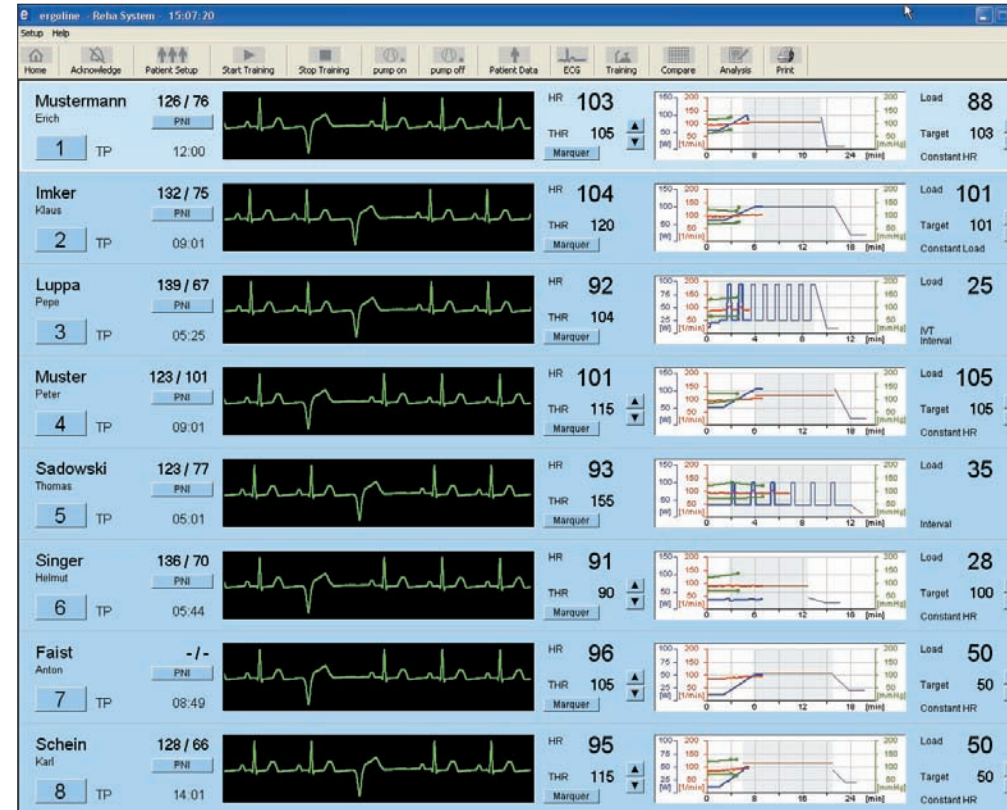
The monitoring display



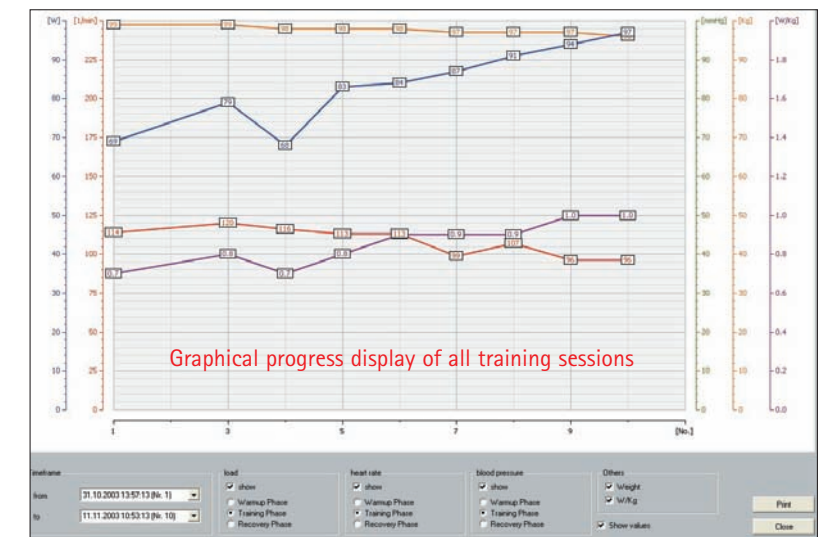
ECG storage and analysis during a current training session



Graphic overview during a current training session



Selected individual training (load, pulse and blood pressure curves with ECG) Analysis of saved training data Overview table of all training sessions



The method

Training on a bicycle ergometer has long been recognized as an effective training method for rehabilitation from cardiovascular diseases. For an optimum degree of success patients should train using an exertion programme defined specially for them. Depending on the diagnosis and the current training status an individual training profile can be produced for every patient.

Diverse forms of training can be employed, such as: Pulse steady state – Constant load – Interval training

Integrated monitoring with continuous ECG observation and ECG recording, as well as automatic blood pressure measurement (optional extra) during the entire training contribute to patient safety and simultaneously document training progress.

The program

The ERS program was developed with the help of experienced therapists from the cardiological rehabilitation field. Both therapeutic and medical requirements were taken into account in order to meet increasing quality demands, the requirements for quality assurance and the need for an economic employment of personnel.

Automatic control of the ergometers together with continuous monitoring and automatic documentation of all training data serve to relieve personnel in the day-to-day operation. A practical and logical structure minimises the number of operating steps required and shortens the learning curve for the program.

Documentation

During the entire training period all important training parameters are saved: Heart rates, ECG, training duration, training performance, blood pressure (for all training phases). The figures can be displayed in tabular and graphic forms. The print-out, with the logo of your institution, occurs on a colour laser printer.

Monitoring

All important and relevant data for the current training session are displayed simply and clearly on the monitor. To assist the therapist there is the easy operation of ERS, with a sophisticated split-window technique, and not just for monitoring larger patient groups. So comparisons can also be made with other training units, patient data can be modified and new patients and groups created – even during a current training session. High levels of patient safety are ensured through alarm thresholds set for pulse and blood pressure for each individual patient. Consequently during training, it is possible to react specifically to changes in the parameters monitored.

Analysis

The entire training data for all patients are saved in the database. Daily diagrams for individual patients can therefore be displayed in tabular or graphic form. Furthermore, it is possible to make a direct comparison of different training sessions or a renewed analysis of a previously saved ECG. Changes during the course of rehabilitation can be followed via the summary diagram and the graphic course diagram. The success of the entire Reha training program can therefore be effectively documented and clarified.