

# Ergometers

COSMED range of Modular Ergometers



“Outstanding safety,  
reliability and  
accuracy”

Complete range of Modular Ergometers for  
Cardio Pulmonary Exercise Testing in Clinical settings



**COSMED**  
The Metabolic Company

“A full range of highquality, durable ergometers and systems for exercise test and for cardiological rehabilitation”

- | Solid and ergonomic design for maximum performance and safety at highest workloads
- | Optional LCD graphic display
- | User defined exercise protocols
- | Wide range of configurable options
- | Special models: hand crank ergometers, recumbent bikes and pediatric bikes
- | Full interface with COSMED Cardio Pulmonary Exercise Testing equipment and/or Stress ECG



COSMED provides a full range of highquality, durable ergometers and systems for exercise test and for cardiological rehabilitation.

These cycle-ergometers guarantee outstanding safety, reliability and accuracy across the full range of workloads, fulfilling all ergonomic design requirements and the demand for reliability, durability and precision.

The rugged mechanical construction guarantees outstanding safety and trouble-free operation at highest workloads.

All cycle-ergometers include free programming of exercise protocols, intuitive operation and universal interfaces (digital, analog, remote start) for exercise testing in combination with gas exchange equipment and/or stress test ECG.

COSMED modular ergometers provide maximum flexibility in configurations with options such as adjustable cranks, racing saddle, pediatric saddle, automatic blood measurement and pulse oximetry.

## Bicycle Ergometers

- **E1** Entry-level ergometer with low power range, it represents a cost-effective option for exercise tests and training. This ergometer stands out for its low frame, user-programmable exercise protocols and universal interfaces for communication with all commercially available PC-based ECG systems.
- **E5** The medical high-performance ergometers of the E5 series stand for the highest quality, full commitment to user needs, and limitless functionality. This ergometer is characterized by its wide, open step-through frame, extremely low access height, and solid aluminum platform.
- **E100** The classic ergometer for clinical settings. From a powerful ergometer for exercise ECG and performance diagnostics to stand-alone use for heart rate-controlled training—the integration of different modules offers maximum user flexibility for assembling an ergometer that truly meets every need.
- **E150 Pediatric** The colorful design of the ergometer relieves children of their fear of the “medical device”. Special adaptations (extended handlebar, adjustable pedal cranks) make it possible to conduct exercise tests with younger children. In just a few simple steps, the pediatric saddle can be exchanged for a standard saddle. The ergometer can thus also be used with older adolescents and adults.



The modular design of the medical-grade ergometer incorporates state-of-the-art technology.



The colorful design of E150 Pediatric relieves children of their fear of the “medical device”.

## Special Ergometers

- **E600** Recumbent cyclergometer designed for patient weight of up to 300 kg, it is Ideal for morbidly obese, elderly or handicapped patients. Details such as the 3-way adjustable backrest, special pedal shoes with adjustable pedal spacing and additional cushions that increase the distance between the pedal axis and the large seat surface enable optimal adjustment to every individual patient.



*A sturdy support bracket made of tubular steel gives patients a secure hold while moving on and off the E600 ergometer.*

## Reclining Ergometers

- **E10** The half-reclining ergometer is a multi-function device that offers a high level of safety during the ergometric test, particularly for older patients. The couch surface can be adjusted from a horizontal position up to a 45° angle. The inclination angle and seat position are set via an electrical drive by remote control. With just a few movements, the unit can be converted to a comfortable examination couch.
- **E12** Trailblazing functionality and expressive design, combined to create the perfect stress echo reclining ergometer. The low couch height specifically enables convenient access for elderly patients – without the interference of the ergometry unit, support elements and seat. The extremely sturdy design supports patient weights of up to 200 kg without vibration during ergometric testing.
- **E1200** The classic tilt-recline ergometer for dynamic stress echocardiography examinations. The angle of inclination can be electrically set both horizontally and laterally between 0 and 45°. The drop section in the couch surface facilitates the ultrasound examination. Multiple adjustable support elements also provide the patient with stability in the lateral position.



*E1200, the classic tilt-recline ergometer for dynamic stress echocardiography examinations.*

## Training Ergometers

- **Optibike Plus** The ideal training ergometer for in-home and therapeutic use. Different forms of training (heart rate-controlled, constant load, interval training) can be programmed easily and are conveniently supported. The optionally available digital chest strap ensures reliable acquisition of the heart rate. Completed training sessions can be saved on a chip card and analyzed on the PC. Our optibike ergometers are also well suited for orthopedic patients thanks to their low step-through access.



*The Optibike Plus ergometer offers a wide range of expansion options.*



*Full interface with COSMED Stress ECG.*



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