

Key Features

- △ **Full range of products from clinical to high performance**
- △ **Proven technology**
- △ **Ergonomic design**
- △ **User-friendly operation**
- △ **Wide range of options**
- △ **User defined exercise protocols**
- △ **Full integration with COSMED Cardio Pulmonary Exercise Testing equipment**

Your reliable partners for Clinical and High Performance Cardiopulmonary Exercise Testing



Overview

COSMED bikes offer unparalleled versatility for a wide range of applications and purposes. Each cycle ergometer was designed to meet user requirements at a very reasonable price. Choose among medical and sport bikes the most suitable for running your standardized CPET test. Price range meets any budget.

E100 P/K

This is the best choice for private practice and clinical settings. Ideal not only for CPET testing in combination with a gas exchange equipment or/and a stress test ECG, but also if used as a stand-alone or for constant HR controlled exercises. E100 offers reliability and quality output. Two models are available: the standard **E100 P** and its extension **E100 K** with LCD graphic display.

E200 P/K

Easy to use either if controlled by any COSMED CPET equipment or simply as a stand alone instrument, the E200 is the perfect choice for rehabilitation and clinical settings thanks to the electrical adjustment of the saddle height. E200 is available in two different models: the standard **E200 P** and its extension **E200 K**. The optional automatic blood pressure meter assures accurate measurement values of systole, diastole and HR even under extreme stress.

E400 HK P/K

Computerized controlled hand-crank ergometer specifically designed for upper limbs training. The E400 HK is also appropriate for application with disabled subjects. The main unit together with the comfortable positioned hand cranks are mounted on a robust, stable frame. A special holding device has been developed in the eventuality of subjects that cannot leave their wheel chairs.

Excalibur Sport

High quality ergometer designed for sport medicine, Olympic sport centers, research and occupational health. The work load is controlled electro-magnetically and is continuously adjustable up to 1500 Watt. Excalibur Sport is the ideal instrument for testing top level athletes. The new design ensures maximum stability at the highest workloads.



Hardware Features



E100 P/K

Is the ideal companion for an affordable Cardiopulmonary Exercise Testing. Serial interface allows easy integration with CPET systems.

- Manual adjustment of saddle height (from 120 to 210 cm)
- Handlebars inclination adjustment (angle 360°)
- 10 freely definable ergometry protocols
- Set of 5 predefined selectable protocols
- Maximum patient weight 140 kg or 309 lb
- Graphic LCD display (K version only)
- Pulse-steady-state program with integrated Polar receiver (K version only)
- Predefined fitness tests (K version only)

Options

- Adjustable cranks
- Racing saddle
- Pediatric saddle
- Automatic blood pressure measurement (retrofit NIBP)
- Pulse oximetry (SpO₂)



E200 P/K

The E200 is the ideal bike for the cardiopulmonary assessment during exercise.

- Electrical adjustment of saddle height (from 120 to 210 cm)
- Saddle height digital display
- Dual-mode handlebar adjustment available (height and inclination)
- 10 freely definable ergometry protocols
- Set of 5 predefined selectable protocols
- Maximum patient weight 140 kg or 309 lb
- Graphic LCD display (K version only)
- Pulse-steady-state program with integrated Polar receiver (K version only)
- Integrated fitness test programs (K version only)

Options

- Adjustable cranks
- Racing saddle
- Pediatric saddle
- Automatic blood pressure measurement (retrofit NIBP)
- Pulse oximetry (SpO₂)



E400 HK P/K

Specifically designed for upper limbs training, E400 HK is interchangeable and controllable with any COSMED CPET equipment by the RS232 serial port and with external devices through its analog inputs.

- Seat width: 50 cm
- Adjustment of length: infinitely variable
- Patient weight: max 120 kg
- Brake system: computer operated eddy-current brakes
- 10 freely definable ergometry protocols
- Set of 5 predefined selectable protocols
- Graphic LCD display (K version only)
- Integrated polar receiver (K version only)
- Manual load adjustment

Options

- Special holding device for wheel chair



Excilibur Sport

Perfect tool for high performance purposes, Excilibur Sport is supplied with a race saddle, adjustable handlebars and toe clips. Pedals are compatible with standard Look and other clip-in systems (i.e. Shimano). Optionally, the Wingate test allows users to perform "constant torque" protocols to obtain anaerobic capacity and explosive power.

- Peak load (max. 6 minutes): 2500 Watt
- Maximum patient weight 180 Kg or 397 lb
- Horizontal, vertical and angle adjustment of the saddle
- Parameters measured can be stored in a PC using a bidirectional PC link

Options

- Programmable control unit with storage of 50 protocols
- Wingate software
- Pedal force measurement
- Adjustable paediatric and sport cranks
- Pediatric settings
- 0-Watt start-up system
- Blood pressure module
- Heart rate
- Windows-based SW, to control the system and analyse ergometry data

Technical Specifications

	E100 P/K	E200 P/K	E400HKP/K	EX. Sport
Load range (Watt)	6-999	20-999	20-999	8-1500
RPM range	30-130	30-130	30-130	25-180
Load steps	5 Watt	5 Watt	5 Watt	1 Watt
Accuracy	3% ±3W	3% ±3W	3% ±3W	<100 W ±2W 100-1500 W ≤2% >1500 W ≤5%
Interface	RS-232, analog	RS-232, analog	RS-232, analog	RS-232, analog
Power supply	100-240V 50/60 Hz	100-240V 50/60 Hz	100-240V 50/60 Hz	115/230 VAC 50/60Hz
Dimensions (cm)	90x46x133	90x46x133	130x87x135	130x70x89
Weight (kg)	64	68	73	100

Quality Standards

Equipment complies with MDD (93/42 EEC) and FDA 510 (k) regulations.



COSMED
Pulmonary Function Equipment

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