

# Ergometers

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

- ▶ 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



### Application

- ▶ Clinical Cardio Pulmonary Exercise Testing
- ▶ Rehabilitation training
- ▶ Cardiovascular training

### Related Products

- ▶ Fitmate line
- ▶ Quark PFT
- ▶ Quark CPET
- ▶ K4 b<sub>2</sub>/K5
- ▶ Quark C12x/T12x

### Options

- ▶ Adjustable cranks
- ▶ Racing/pediatric saddle
- ▶ Blood pressure monitor
- ▶ SpO<sub>2</sub> monitor
- ▶ ECG amplifier

COSMED ergometers outstanding safety, reliability and accuracy across the full range of workloads. The special ergonomic design provides performance-enhancing seating position for all patients, irrespective of their height. The rugged mechanical construction guarantees outstanding safety and trouble-free operation at highest workloads.

All Ergoselect 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.

These ergometers are fully modular providing maximum flexibility in configuring the ergometer with options such as adjustable cranks, racing saddle, pediatric saddle, automatic blood measurement and pulse oximetry.

Two configurations are available: with (K version) or without (P version) LCD graphic display.

**E50 P:** Lower cost ergometer due to a lower power range (6-400 W), ideal for clinical applications.

**E100 P/K:** Classic cycle ergometer for training and/or for cardiac and pulmonary exercise testing in private practice and clinical settings.

**E150 P:** Cycle ergometer with special saddle adjustment for pediatric applications.

**E200 P/K:** Ideal for rehabilitation and clinical settings thanks to the electrical adjustment of the saddle height and the special footboard.

**E400 P/K:** Hand-crank ergometer specifically designed for upper limbs training or for applications with disabled subjects. With a special holding device for subjects that cannot leave their wheel chairs.

**E600 P/K:** Recumbent cyclergometer designed for patient weight of up to 260 kg. Ideal for obese, elderly or handicapped patients. Wide adjustment range for the seat and large seat surface.

**E1000 P/K & E1100 P:** reclining ergometers for supine position protocols.

**E1200 P/K:** The ideal tilt-recline ergometer for dynamic stress echocardiographic examinations (angle of inclination can be electrically set both horizontally and laterally between 0 and 45°).

## Product Comparison Matrix



Features	E 50	E 100	E 150	E 200	E 400 HK	E 600	E 1200
Type of Ergometer	Legs	Legs	Legs (paediatric)	Legs	Arm	Legs (recumbent)	Tilt-recline
Main application	CPET	CPET	Pediatric	CPET, Rehabilitation	Rehabilitation	Rehabilitation, Obesity	Stress Echocardiography
Integration with COSMED CPET Systems	•	•	•	•	•	•	•
Integrated HR Receiver		• (only K version)	• (only K version)	• (only K version)	•	• (only K version)	• (only K version)
Integrated Pulse Oximetry		○	○	○		○	○
Automatic Blood Pressure Measurement		○	○	○		○	○
ECG amplifier (ERS Rehabilitation System)					○	○	○
Braking system	Electro-magnetic	Electro-magnetic	Electro-magnetic	Electro-magnetic	Electro-magnetic	Electro-magnetic	Electro-magnetic
Footboard				•			
Adjustable handlebar height				•			
Adjustable saddle	Manual	Manual	Manual	Motorized		Manual	Incline & Tilt (0-45°)
Racing saddle		○		○			
Paediatric settings		○	•	○			
Wheelchair Holding Device					○		
Pre-set Training Protocols	5	5	5	5	5	5	5
Available User Protocols	10	10	10	10	10	10	10

Hardware	E 50	E 100	E 150	E 200	E 400 HK	E 600	E 1200
Dimensions (cm)	90x46x133	94x46x133	90x46x133	90x46x133	130x87x135	165x75x108	240x90x180
Weight (kg)	58	64	65	66	73	86	140
Maximum patient weight (kg)	160	160	60 (pediatric) 160 (adult)	160	120	260	140
Load Range (Watt)	6-400	6-999	6-999	6-999	6-999	6-999	6-999
Speed Range (RPM)	30-130	30-130	30-130	30-130	30-130	30-130	30-130
Load Steps (Watt)	1	1	1	1	1		
Accuracy	3% ± 3 W	3% ± 3 W	3% ± 3 W	3% ± 3 W	3% ± 3 W	3% ± 3 W	3% ± 3 W
Display LCD	128x64	128x64 (P) Graphic 320x240 (K)	128x64 (P) Graphic 320x240 (K)	128x64 (P) Graphic 320x240 (K)	Graphic 320x240	128x64 (P) Graphic 320x240 (K)	128x64 (P) Graphic 320x240 (K)
Interface	RS-232, analog	RS-232, analog	RS-232, analog	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	100-240V, 50/60 Hz	100-240V, 50/60 Hz	90-265V, 50/60 Hz	90-265V, 50/60 Hz

• Standard      ○ Option

Distributed by:

