

Complete range of Modular Ergometers for Cardio Pulmonary Exercise Testing in Clinical 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 CPET (Cardio Pulmonary Exercise Test)
- ▶ Rehabilitation training
- ▶ Cardiovascular training

Related Products

- ▶ Fitmate line
- ▶ Quark CPET/PFT/RMR
- ▶ K5
- ▶ Quark C12x/T12x

Options

- ▶ Adjustable cranks
- ▶ Racing/pediatric saddle
- ▶ Blood pressure monitor
- ▶ SpO₂ monitor
- ▶ ECG amplifier

COSMED provides a full range of high-quality, 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.

E1: Entry-level ergometer with lower power range (6-450 W), cost-effective option for exercise tests and training.

E4 - E5: New series of modular ergometers combining advanced technology with a modern design. Choice of three different models of control panels.

E100: Classic cycle ergometer for training and/or for cardiac and pulmonary exercise testing in clinical settings.

E150: Colorful cycle-ergometer with special saddle adjustment for pediatric applications.

E200: Ideal for rehabilitation and clinical settings thanks to the motor-driven adjustment of the saddle height and the special footboard.










E400: Hand-crank ergometer specifically designed for upper limbs training or for applications with disabled subjects. Available a special holding device for subjects that cannot leave their wheelchairs.

E600: Recumbent cyclergometer designed for patient weight of up to 300 kg. Ideal for morbidly obese, elderly or handicapped patients. Wide adjustment range for the seat and large seat surface.

E1000 - E1100 - E1200: Reclining ergometers for supine position protocols. The reclining surface can be adjusted from a horizontal position up to a 45° angle.

E12: The new 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

									
	E 1	E 4	E 5	E 100	E 150	E 200	E 400 HK	E 600	E 12
Purpose of use	Legs	Legs	Legs	Legs	Legs	Legs	Arms	Legs (recumbent)	Incline & Tilt
Main application	CPET	CPET	CPET	CPET	Pediatric CPET	CPET, Rehabilitation	CPET, Rehabilitation	Rehabilitation, Obesity	Stress Echocardio
Integration with COSMED CPET Systems	●	●	●	●	●	●	●	●	●
Performance									
Load Range (Watt)	6-450	6-999	6-999	6-999	6-999	6-999	6-999	6-999	20-999
Load Steps (Watt)	1	1	1	1	1	1	1	1	1
Speed Independent	●	●	●	●	●	●	●	●	●
Speed Range (RPM)	30-130	30-130	30-130	30-130	30-130	30-130	30-130	30-130	30-130
Accuracy	3% ± 3 W	3% ± 3 W	3% ± 3 W	3% ± 3 W	3% ± 3 W	3% ± 3 W	3% ± 3 W	3% ± 3 W	3% ± 3 W
Maximum patient weight (kg)	160	160 (opt: 200 kg)	160 (opt: 200 kg)	160	60 (pediatric) 160 (adult)	160 (opt: 200 kg)	120	300	200
Hardware									
Electro-magnetic braking system	●	●	●	●	●	●	●	●	●
Two-stage brake system with special drive belts		●	●						●
Dimensions (cm)	100x60x144	106x54x125	106x54x125	94x46x133	90x46x133	90x46x133	130x87x135	165x75x108	220x90x180
Weight (kg)	69	66	66	64	61	66	73	86	240
Display LCD	128x64 (P)	Remote control (M), Ergometry (P), Color-touch (T)	Remote control (M), Ergometry (P), Color-touch (T)	128x64 (P) Graphic 320x240 (K)	128x64 (P) Graphic 320x240 (K)	128x64 (P) Graphic 320x240 (K)	Graphic 320x240	128x64 (P) Graphic 320x240 (K)	Remote control (D), Ergometry (P), Color-touch (T)
Interface	Digital (RS-232, USB), Bluetooth (o) Wifi (o)	Digital (RS-232, USB), Bluetooth (o) Wifi (o)	Digital (RS-232, USB), Bluetooth (o) Wifi (o)	Digital (RS-232, USB), analog, remote start	Digital (RS-232, USB), analog, remote start	Digital (RS-232, USB), analog, remote start	Digital (RS-232, USB), analog, remote start	Digital (RS-232, USB), analog, remote start	Digital (RS-232, USB), Bluetooth (o) Wifi (o)
Power	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	100-240V / 50-60 Hz	100-240V / 50-60 Hz	100-240V / 50-60 Hz	100-240V / 50-60 Hz
Handlebar adjustment	Inclin. 360°	Inclin. 360°	Inclin. 360°	Inclin. 360°	Inclin. 360° Height 90-126	Inclin. 360° Height 90-126			Incline & Tilt (0-45°)
Saddle height adjustment	Mechanical	Mechanical	Mechanical	Mechanical	Motor-driven	Motor-driven	Mechanical (horizontal)	Mechanical (horizontal)	Motor-driven
Additional Measurement Features									
Integrated HR Receiver (Pulse Control)		●	●	● (K version)	● (K version)	● (K version)	●	● (K version)	
Cardio set (HR Receiver / Chest Belt)		○	○						
Integrated Pulse Oximeter		○	○	○	○	○	○ (K version)	○	
Automatic Blood Pressure Measurement		○	○	○	○	○		○	○
ECG amplifier (ERS Rehabilitation System)							○	○	
ERS Rehabilitation System communication port							●	●	
Racing saddle		○	○	○		○			
Wheelchair Holding Device							○		
Protocols									
Manual load adjustment	●	●	●	●	●	●	●	●	●
Pre-set Training Protocols	5			5	5	5	5	5	3
Available User Protocols	10	10	10	10	10	10	10	10	10

● Standard ○ Option

Distributed by:



COSMED srl

Via dei Piani di Monte Savello 37,
Albano Laziale - Rome
00041 ITALY

O +39 06 931-5492
F +39 06 931-4580

info@cosmed.com
cosmed.com

cosmed.com