

# BK-24

Sport Range Ergometer



“ Perfect cycling feel,  
reliability and accuracy ”

The smart ergometer designed for wireless exercise testing



**COSMED**  
The Metabolic Company

“COSMED BK-24 was developed together with well-known cyclists coaches and scientist to get a product with a perfect cycling feel that needs to be experienced”

- | Pendulum system with electronic control for guaranteed accuracy
- | Compatible with all ANT+ and BLE devices with FE-C and FTMS protocols
- | Integrated ANT+ heart rate signal receiver
- | Step-less seat and bar adjustment for the best bike fit
- | Electronic shifters and sprint buttons, for end-user configuration
- | Calibrated Watts in display
- | Load controlled with Watts (speed independent) or force (in kp, speed dependent)



BK-24 is a new performance bike fully integrated with COSMED ecosystem, for complete metabolic assessment for sports applications.

Especially developed to reproduce a realistic cycling feel, this bike allows you to ride in the lab as you would in the field.

Smart connectivity, granted by both BLE and ANT+ protocols (FTMS and FE-C profiles), creates new opportunities to connect and communicate with third-party devices and applications.

These characteristics, combined with the innovative display, electronic shifters and sprint buttons, make BK-24 the perfect solution for exercise testing, controlled training or virtual racing.

## Usability

The robust ergometer together with the characteristic flywheel creates a unique and smooth cycle feeling.

The electric servo enables third parties to take control of the resistance of the bike. Both the shifters and sprint buttons can be customized to best suit the rider's requirements.

## Accuracy

Accurate measurement is provided by the electronic control of our unique pendulum system, that allows simple calibration of the bike and reproducibility of measurements that is erroneously taken for granted with many high-power ergometer applications.

## Connection

The display communicates with both Bluetooth and ANT+, via the standardized communication protocols Fitness Machine Service (FTMS) and Fitness Equipment Controls (FE-C), respectively, so that third-party applications on Android (Samsung, Sony, Huawei and more), iOS (Apple), Windows and Mac are all supported.

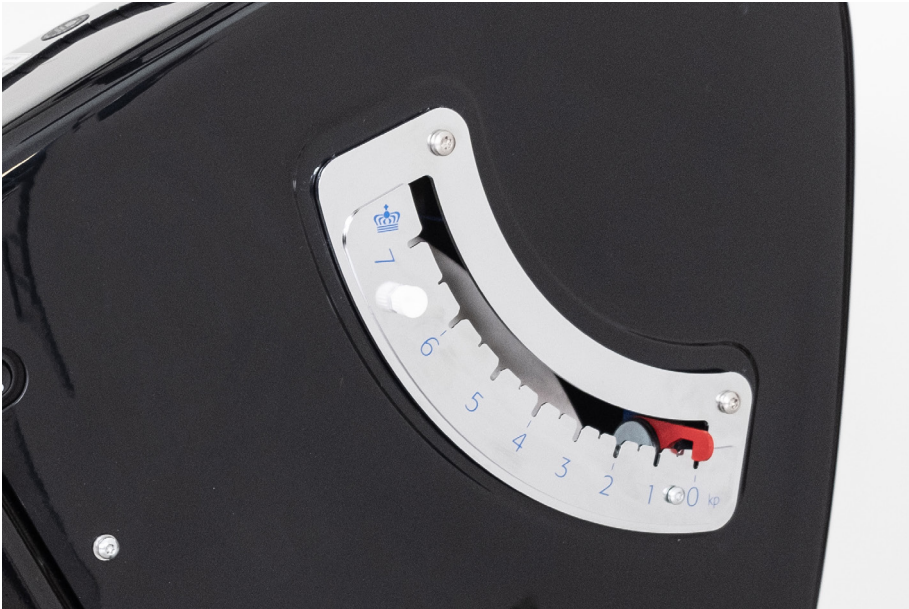
## Customization

Use your own saddle, handlebars, pedals, or choose among different options; including a handlebar with gear shifters and sprint button, longer adjustable seat post, adjustable handlebar and mountain bike handlebars.



Height-adjustable seat post with rail notch indicators allows unlimited height settings





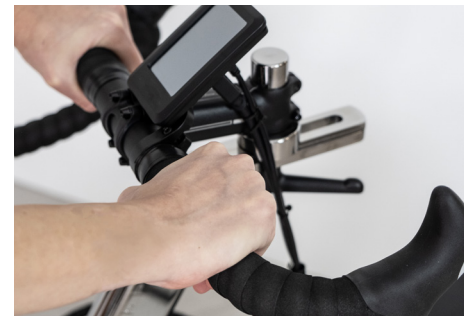
Unique pendulum system allows simple calibration of the bike by means of the kp scale and a calibration weight



Standard combi SPD pedals with toe clip cage design



Drop bar handlebars designed for a true racing position



Innovative graphic display for quick and precise adjustment of the resistance and wireless connectivity

Technical Specifications	
Frame	
Handlebar	Road racing handlebar
Stem	Adjustable horizontal 120 mm, vertical 500-910 mm
Seatpost	Adjustable horizontal 120 mm, vertical 500-910 mm
Saddle	Black, Racing
BB	68/107 mm
Crank	Steel, 172.5 mm
Pedals	9/16", combi Cage/ SPD
Resistance	
System	Pendulum system
Workload range	15-1400 W (@200 rpm)
Flywheel	20 kg
Display	
Parameters	RPM, HR (ANT+), time, speed, resistance, distance, Power/Watt
Connectivity	
Wired connection	USB
Wireless connection	BLE and ANT+
Weight and Measurement	
Max user weight	150 Kg
Length	1405-1630 mm
Width	640 mm
Height	1265 mm at display, 1240 mm at saddle
Weight	77 kg
Power requirements	
Voltage	100-240V (12V, 5,0 A)





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