



The standard in Ergometry

# Brachumera Sport PFM

Equipped with cutting-edge pedal force measurement technology, ensuring unbeatable accuracy and reliability for athletes striving to reach new heights in strength and performance.

## The Gold Standard in Arm Ergometry since 2011

For over a decade, the Brachumera Sport has been recognized as the Gold Standard in upper body ergometry. With the integration of Pedal Force Measurement (PFM), Lode introduces a new era in upper body performance diagnostics and rehabilitation.

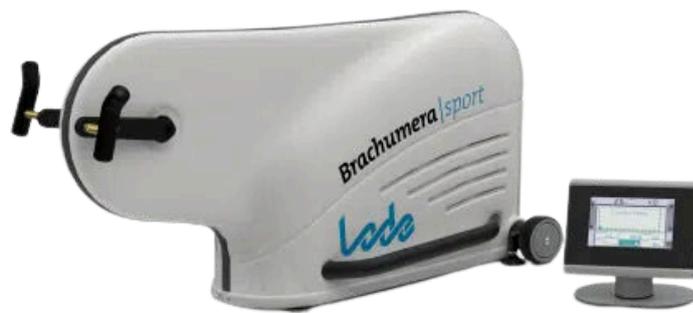
Whether you're working with elite athletes or patients in clinical rehabilitation, the Brachumera Sport PFM delivers real-time, high-resolution data on force application during every crank rotation – allowing you to assess, adapt, and improve with unmatched accuracy.

Brachumera Sport – an intelligent, advanced and robust solution designed to meet the ever-changing demands of modern sports medicine and research.

## Precision and power

The Lode Brachumera Sport PFM combines a wide workload range of 10 to 3000 Watts with left-right independent force measurement and precise vector analysis via crank angle sensors. This state-of-the-art arm ergometer delivers accurate, reliable data across all performance levels — from clinical rehabilitation to elite sports.





## Why the Brachumera Sport PFM

### **Extreme workload range of 10 - 3000 watt**

This extraordinary peak workload is extremely suitable for sports medicine and testing the strongest athletes on their anaerobic power or isokinetic capacity. Combined with the low start workload of 10 Watt this ergometer will fit everybody.

### **Suitable for all types of tests**

Multiple tests can be performed with the Brachumera Sport for your clients as a (sport)medical professional such as; wingate, isokinetic, high-intensity, time trials and cardiopulmonary exercise testing.

### **Pedal Force Measurement**

Equipped with modified strain gauge technology, the Brachumera Sport measures the forces exerted on the pedals during exercise with angle detection. This technology allows for independent measurements of forces in both left and right cranks, ensuring precise and accurate readings.

### **PFM Measurement at 1000 Hz**

The accuracy of the PFM is obtained by the high frequency of data collection at 1000 Hz in combination with highly specific strain gauges in the crank axis.

### **Designed to be sweat proof**

The housing of the ergometer is designed in such way that sweat does not have the chance to drip into the mechanical parts. This ensures a long lifetime and makes the ergometer insensitive for malfunction.

