

LODE ERGOMETRY MANAGER EXPANSION MODULE

PEDAL FORCE MEASUREMENT

This software module is standard supplied with the Lode Excalibur Sport ergometer with Pedal Force Measurement. The combination of software and ergometer results in a unique application for sport-medical stress testing, rehabilitation and research.

The Pedal Force Measurement module adds the following features to the Lode Ergometry Manager:

- Continuous registration of the forces exerted on the left and right crank.
- Specific Pedal Force Measurement visualizations.
- Specific Pedal Force Measurement reports and analysis: Numeric data such as peak values, averages, absolute maximum, angle, total efficiency, rpm and left/right ratio are registered and saved. Export to statistical programs is possible with the optional LEM Expansion Module Export
- Protocols for pedal force measurement can be programmed based on time intervals (with a maximum of 60 minutes), enabling a continuous registration of the pedal force.
- On-line visualizations of the forces and Torque on exerted on the left and/or right crank during the test.
- The software offers the possibility to define "area's of interest" (AOI) and to analyze these separately.

With the measured values the operator can a.o. advise the test subject better about:

- Injuries;
- Efficiency of the bicycle movement;
- Body posture at the bicycle;
- Left-right comparison;
- Evaluating rehabilitation process;
- Adjustments to the racing bike.

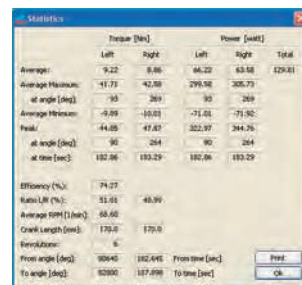
With only one test you get a clear insight into the physiologic and biomechanic possibilities of your client, which enables you to give better advice and support.



PFM visualizations



Define "area of interest"



	Torque [Nm]		Power [Watt]		
	Left	Right	Left	Right	Total
Average:	9.22	8.86	44.22	43.68	87.91
Average Maximum:	47.71	42.58	296.52	305.79	
Average Minimum:	-9.89	-10.01	-71.01	-71.92	
Peak:	44.05	47.87	322.97	344.75	
at time [sec]:	92	264	90	264	
at time [sec]:	182.86	183.29	182.86	183.29	
Efficiency (%):	74.27				
Ratio LR (%):	55.01		49.99		
Average RPM [1/min]:	88.66				
Crank Length [cm]:	179.0		179.0		
Revolutions:	6				
Prolongation:	00:04:0		00:04:0		
Prolongation angle [deg]:	30640		30240		
Prolongation to angle [deg]:	02:00:0		01:59:0		

Report

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the standard in Ergometry


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ISO 9001:2000 and
ISO 13485:2003 certified