



Technical specifications		sana bike		
		500 easy	1000 easy	1000 smart
Standards	<ul style="list-style-type: none"> • 93/42/EEC (EC Medical Device Directive) • DIN VDE 0750-238 (medical ergometer) 	☺	☺	☺
Braking principle	<ul style="list-style-type: none"> • Computer-controlled eddy current brake with permanent torque measurement (the brake unit is independent of revolutions per minute) 	☺	☺	☺
Drive mechanism	<ul style="list-style-type: none"> • Almost noiseless and maintenance-free drive mechanism with Poly-V belt (no chain) 	☺	☺	☺
Load range	<ul style="list-style-type: none"> • work area independent of revolutions per minute (acc. to standard) • 1 to 20 watts, work area dependent of revolutions per minute • Adjustable in steps of 1 watts 	20-400 Watt	20-999 Watt	20-999 Watt
Range of revolutions	<ul style="list-style-type: none"> • 30 to 130 n/min, controlled with foot pedal (independent of revolutions per minute) 	☺	☺	☺
Load tolerance	<ul style="list-style-type: none"> • According to DIN VDE 0750-238 (in range of independent revolutions per minute) 	☺	☺	☺
Load parameters	<ul style="list-style-type: none"> • Externally through master device (ECG, PC, ...) via interface • Freely programmable load software on device (stand-alone operation) 	☺	☺	☺
Time intervals	<ul style="list-style-type: none"> • 1 to 99 minutes 	☺	☺	☺
Display	<ul style="list-style-type: none"> • TFT screen 57 x 43 mm (VGA, resolution 65000 colours) • 5,0" multi-touch widescreen display (1280 x 720 pixel) 	☺	☺	☺
Patient's height	<ul style="list-style-type: none"> • Infinitely adjustable for body height between 140 -210 cm 	☺	☺	☺
Patient's weight	<ul style="list-style-type: none"> • Maximum patient weight 160 kg 	☺	☺	☺
Long-term accuracy	<ul style="list-style-type: none"> • Continuous torque control and equalisation according to weight 	☺	☺	☺
Power supply	<ul style="list-style-type: none"> • 230-240 V, 50 Hz • 110-120 V, 60 Hz (on customer's request) 	☺	☺	☺
Interfaces	<ul style="list-style-type: none"> • RS-232 (galvanically isolated) 	☺	☺	☺
Storage space	<ul style="list-style-type: none"> • 45 x 83 cm 	☺	☺	☺
Ergometer's weight		46 kg	54 kg	54 kg
Blood pressure measurement (optional)	<ul style="list-style-type: none"> • Blood pressure measurement using QRS trigger • Indirectly, with a specific, modified measuring system based on R-R, and computer analysis including maximal suppression of artefacts during ergometry. • Measuring range 40 - 300 mmHg • Automatic pressure release by 3 mmHg/pulse, with high amplitude and quick pressure release in the average range. 		☺	☺
Electrical saddle height adjustment (optional)	<ul style="list-style-type: none"> • Automatic setting through master device is possible (rehab system) 		☺	☺
SpO2 measurement (optional)			☺	☺
WLAN (optional)	<ul style="list-style-type: none"> • To control the load • For data transmission of blood pressure and SpO2 		☺	☺
Pulse measurement (optional)	<ul style="list-style-type: none"> • With blood pressure measuring device • Polar pulse tester (optional) 			☺
ECG amplifier module (optional)	<ul style="list-style-type: none"> • For use in rehab installations 		☺	☺
ECG display (optional)	<ul style="list-style-type: none"> • In conjunction with ergosana chest belt ECG "SanaBlue" • Stable ECG signal, not susceptible to interference 			☺

Technical specifications serve the purpose of technical improvement and are subject to change without notice.



SanaBike 500 - easy



SanaBike 1000 - easy / smart

Application area

The bike ergometers SanaBike 500 and SanaBike 1000 were developed for use in the cardiology sector based on the proven previous models, with particular care to ensure highest stability and practicability. The devices are used for performing defined exercises during ergometric examinations and therapeutic applications. SanaBike 1000 is available in both versions “easy” and “smart”.

The “easy” version is particularly suitable for applications with a master device (remote operation: ECG, PC, ...), whereas the “smart” version is best used as a stand-alone device. Upon customer request, many options can be added to the available features on both devices.

- Blood pressure measurement using QRS trigger
- Electrical saddle height adjustment
- SpO2 measurement
- WLAN connection (to master device)
- Bluetooth connection



Regardless of their features, the devices meet the highest quality standards according to DIN VDE 0750-238 for accurate physical exertion tests to conduct measurements in cardiovascular and pulmonary function diagnostics.

- » pivoting display 180°
- » colour touch display
- » user-friendliness ensured through exercise instructions from all commonly used ECG spirometry devices (remote operation)
- » almost noiseless operation
- » (even at high speed)
- » maintenance-free
- » precision according to DIN VDE 0750-238 or DIN EN 13405
- » low access
- » elegant, robust and easy to clean casing
- » stable steel construction (additional tilt protection available optionally)



- » remote (type “easy”) and stand-alone (type “smart”) operation
- » load range 20-999 Watts
- » various optional extensions available (see technical data)

easy

Ergometers equipped with an “easy” control panel, on which they receive exercise specifications from a master device (ECG, PC, ...), are used for remote operation. All major exercise data (such as blood pressure, heart rate, pedalling rate, instruction concerning correct pedalling rate) is displayed in a compact format. The optional features, such as blood pressure measurement and electric saddle height adjustment, can also be conveniently adjusted from the Touch display.



smart

Ergometers equipped with a “smart” control panel, can be used for remote as well as for stand-alone operation. Exercise instructions can be transmitted from a master device (ECG, PC, ...) or from a programmable ergometry program located on the ergometer. Further, training programs with exercise types such as pulse steady state, constant load and interval training can also be programmed.

