



# PowerCube **Body+**

Body plethysmograph  
Extremely long life hardware meets individual  
software configurations

# ROBUSTNESS AND QUALITY

Simple and puristic design that fits perfectly into the medical workflow. The most individual and robust body plethysmograph – for measuring most PFT parameters at one workstation. PowerCube Body+ hardware and LFX software can be easily configured to meet

specific requirements and preferences. With the enhanced long-term stability and analysis algorithms, users can instantly identify asthma, COPD, restrictions, or combinations of these conditions with just a quick look at the waveform.



Long life,  
robust hardware



Versatile, fast and compatible  
LFX software platform



Lowest costs per  
measurement in industry



Spare part  
free



Maximum device  
configurability



Highly accurate  
and precise

## Sustainability, performance, hygiene and design. Rethought.

The GANSHORN PowerCube Body+ sets a new focus on first-class quality and the highest precision down to the smallest detail. Thanks to the fully barrier-free wheelchair version, it offers improved patient comfort and increased safety, while hygiene measures are made significantly easier and faster thanks to the well-thought-out design. Equipped with an

innovative, calibration-free and waterproof SharpFlow ultrasound sensor, the device delivers fast, reliable and precise results. The clear design of the GANSHORN PowerCube Body+ combines elegance with functionality and is not only a visual highlight in your laboratory, but also makes everyday work easier thanks to optimized hygiene.

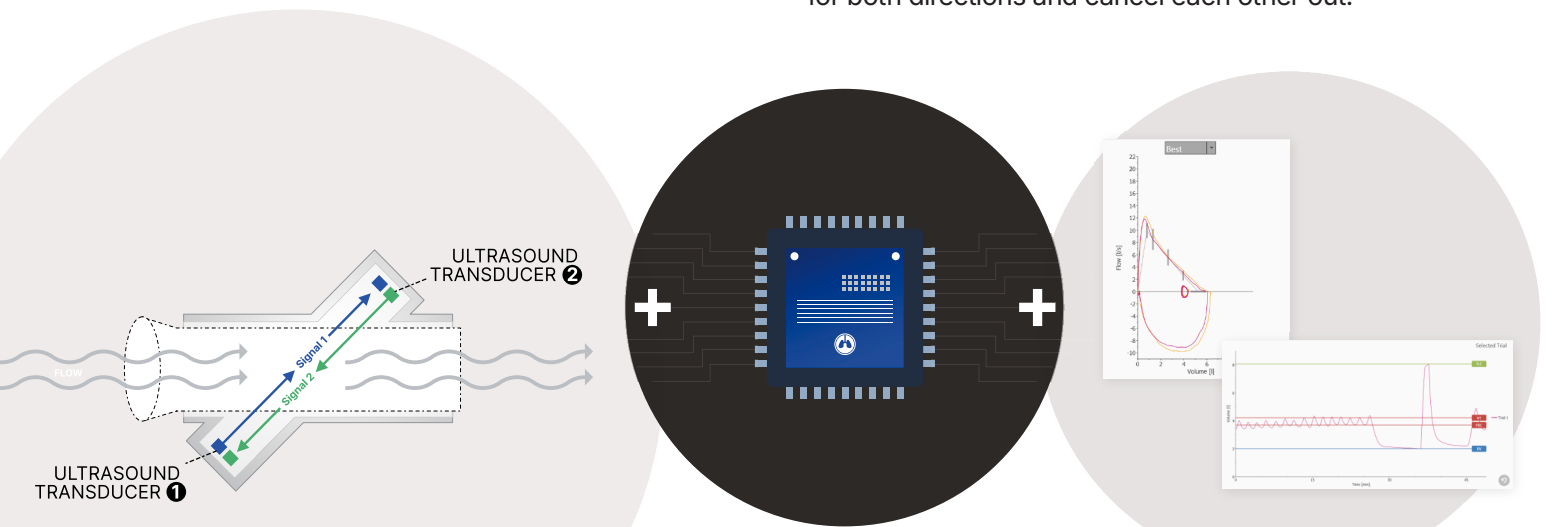


# SharpFlow

## The GANSHORN ultrasound technology

Two diagonally opposite ultrasound transducers alternately send and receive ultrasonic waves. Without any air flow inside the breathing insert, the transit time of the ultrasound waves is the same in both directions. Any air flow inside the insert will accelerate the waves in one direction and decelerate in the other.

The difference between the transit times of the ultrasound waves allows to calculate the flow. Flow and gas density are calculated from the measured transit times, allowing changes in the concentration of the exhaled gases to be determined directly and at the same time with the respiratory volume. All other factors like gas properties, humidity and temperature are the same for both directions and cancel each other out.



### 1 Double ultrasound signal capturing

The ultrasound measuring system captures the signal with two sensors, in both directions simultaneously, for spatially precise recording

### 2 Measurement hardware acceleration

Devices based on SharpFlow measurement technology run on a sophisticated and proven hardware logic.

### 3 High-resolution diagram rendering

Based on the multi-layered recorded values, the measurement software LFX is able to render particularly precise and sharp graphics.



### Precision + Resolution

The high sampling resolution is a prerequisite for reliable determination of flow  
No noticeable resistance during breathing



### No detours

No substitute parameters for flow necessary (e.g. Differential pressure)  
Direct flow measurement based on digital measurement technology



### Room climate-independent

Not affected by changing ambient conditions like temperature or humidity of breathing air

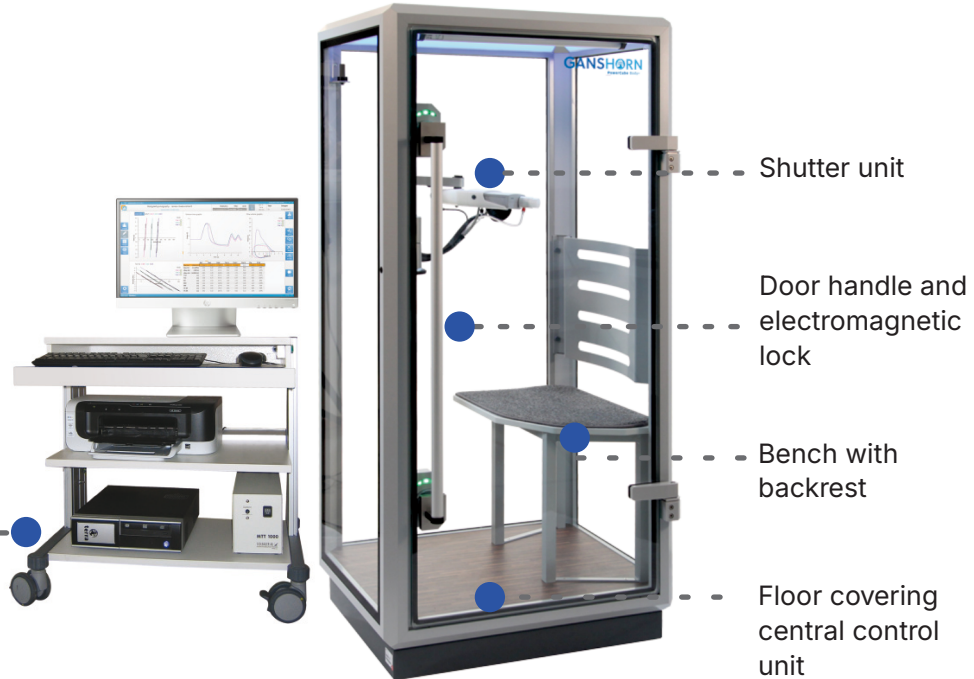
# COMPLETE PACKAGE

The PowerCube Body+ station includes a medical All-in-One touchscreen PC and comes optionally with an ergonomic height adjustable trolley.

System accessoires like an external printer and isolating transformer are elective.

## Work station

- ✓ Optional medical grade ergonomic trolley
- ✓ height adjustable
- ✓ medical All-in-One PC with touch function
- ✓ optional with isolating transformer



# CONFIGURATIONS

Programs	Standard	Option	Functions	Standard	Option
■ Microsoft SQL / MySQL	☑		■ Bodyplethysmography	☑	
■ XML reports	☑		■ Slow spirometry	☑	
■ Multiuser license		☑	■ Forced spirometry	☑	
■ Worklist		☑	■ Single breath diffusion		☑
■ DICOM/GDT/HL7		☑	■ N2 washout		☑
<b>Variations</b>			■ Provocation		☑
■ Trolley			■ Rhinomanometry		☑
■ Floor color selectable			■ MIP/MEP		☑
■ Bench or chair			■ SNIP		☑
■ Comfortable entry due to handle and elevated seating position					
■ Wheelchair, XL and standard cabin					

# FEATURES



## Electromagnetic door lock

with LED locking indicator



## "Safety unlock" button

gives patients sense of control



## Patient speaker and microphone

for a maximum of cooperations



## 3D swivel arm

Fellexible, height-adjustable interface



## Maximum comfort

Panorama view and LED lights



## Multiple options

Easy integrations of diffusion and/or provocation

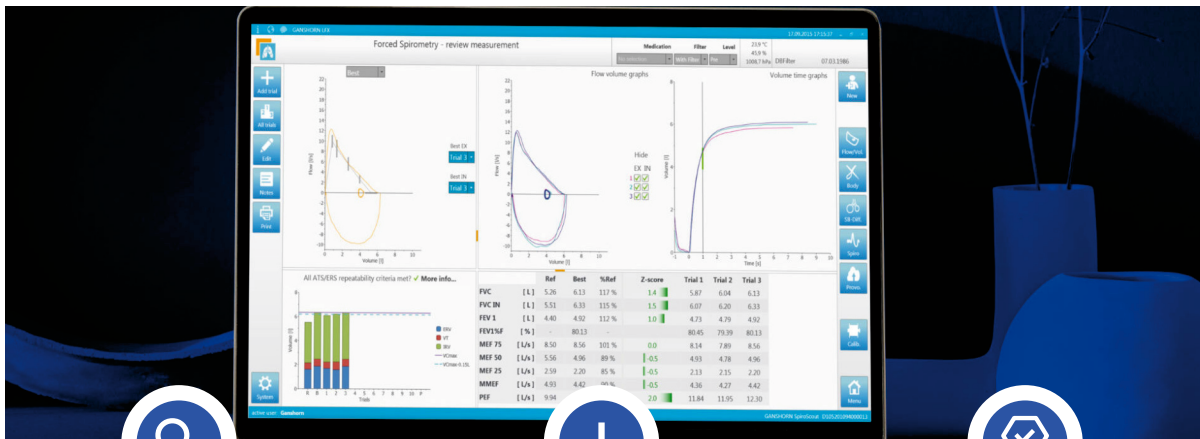




# LFX Software platform

The LFX software is our user-friendly interface, developed with the physiologist in mind. The patient management interface provides all the tools necessary to perform every task done in the laboratory, while remaining easy to operate. Built on state-of-the-art Windows

tools like .net, C# and SQL database, the LFX software is the future of modern respiratory diagnostics. The LFX software has built-in quality control monitoring based on ATS/ERS guidelines, which are accessible during and after the measurements are performed.



## Precision

Flow/Volume: Selection of best In/Ex curves from group of multiple trials

DLCO sample can be 0.05 l and still produce valid results

GLI, ECCS, NHANES, ATS and many more reference values available, display editable



## Efficiency

Automatic offset correction

Online BTPS correction

No volume calibration

Graphical visualisation tools for evaluation

Maneuver animations for children



## High quality

Clean and modern interface

Quality control via ATS/ERS criteria

Improved speed diagnosis

Customizable templates and reports

Comprehensive service and support

Intuitive workflow

## Connect all GANSHORN devices to one software system

Large-format displays enable quick and correct evaluation of measurements and breathing maneuvers at first glance. The use of modern Windows tools such as .NET enables platform and language-independent communication. A modern database concept that uses both Microsoft SQL and MySQL offers the perfect approach – both for general practitioners and for large hospital networks.

- HIS integration
- DICOM
- GDT communication
- Full network compatibility
- SQL Database system
- Export of PDF and raw data files



# SCHILLER

The Art of Diagnostics

SCHILLER, founded in 1974 by Alfred E. Schiller is a successful group with 31 subsidiaries and a global sales network. Today, SCHILLER is a world-leading manufacturer and supplier of devices for cardiopulmonary diagnostics, defibrillation and patient monitoring as well as software solutions for the medical industry.

Over the past 25+ years, Schiller India has established itself as a leader in the medical technology sector. With 450+ employees, a state-of-the-art ISO 13485-certified production centre in Puducherry, and multiple R&D centres across the globe, Schiller India makes advanced healthcare equipment accessible through a network of 100 sales and service dealers across more than 45 locations. Our product range includes Critical Care, Anaesthesia, Emergency Care, Cardiology, Respiratory Diagnostics, Radiology, and Robotics.



## GANSHORN

### SCHILLER GROUP

For 40 years GANSHORN has been manufacturing a complete state-of-the-art portfolio of pulmonary function testing systems for spirometry, bodyplethysmography, diffusion, bronchial provocation and cardiopulmonary stress testing. With its technological innovations, the company has been a leader in the diagnostics market since 1982. Many of these are now perceived as gold standards. In order to meet high quality standards, all key components are made in Germany. All devices are created in modern processes in Bavaria, from the initial idea to distribution.

Scan here  
to know more:



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**SCHILLER**  
The Art of Diagnostics

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