



GANSHORN

SCHILLER GROUP

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.

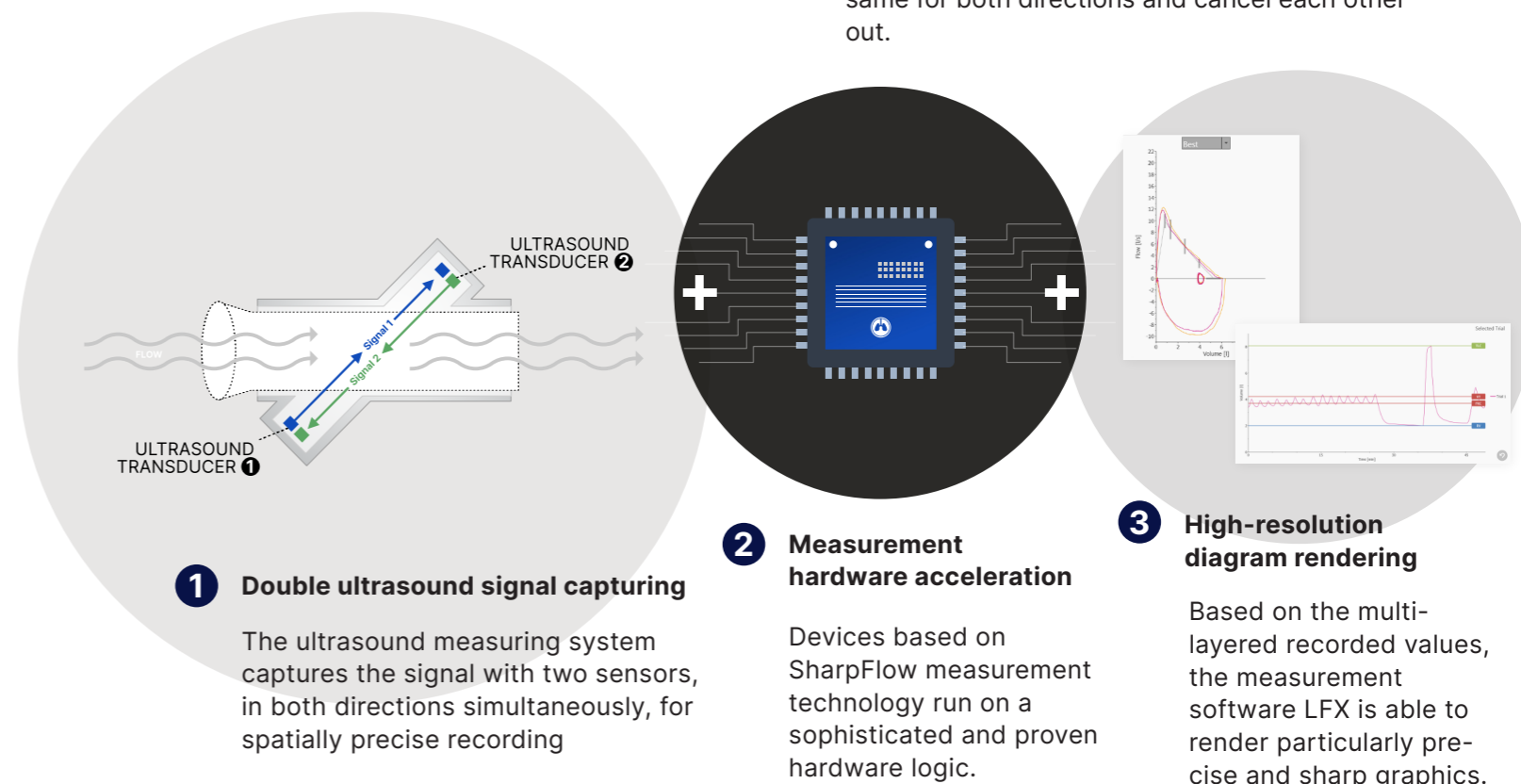


SharpFlow

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.



Precision & Resolution

High resolution (1,000 measuring points/sec) 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



- Shutter unit
- Door handle and electromagnetic lock
- Bench with backrest
- Floor covering central control unit

CONFIGURATIONS

Programs

- Microsoft SQL / MySQL
- XML reports
- Multiuser license
- Worklist
- DICOM/GDT/HL7

Standard Option

- ✓
- ✓
- ✓
- ✓
- ✓

Functions

- Bodyplethysmography
- Slow spirometry
- Forced spirometry
- Single breath diffusion
- N2 washout
- Provocation
- Rhinomanometry
- MIP/MEP
- SNIP

Standard Option

- ✓
- ✓
- ✓
- ✓
- ✓
- ✓
- ✓
- ✓
- ✓

Variations


- Trolley
- Floor color selectable
- Bench or chair
- 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

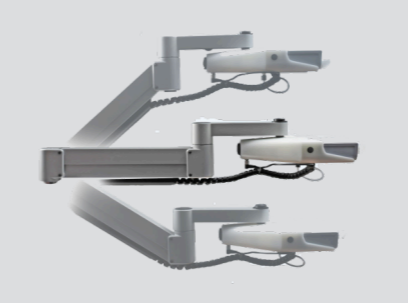
for a maximum of cooperations



+

3D swivel arm


Fellexible, height-adjustable interface



+

Maximum comfort


Panorama view and LED lights



+

Multiple options

Easy integrations of diffusion and/or provocation

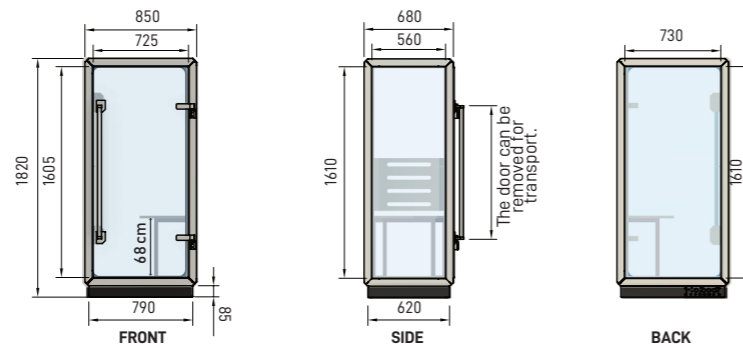


DIMENSIONS (mm) & SET-UPS

LFX Software platform

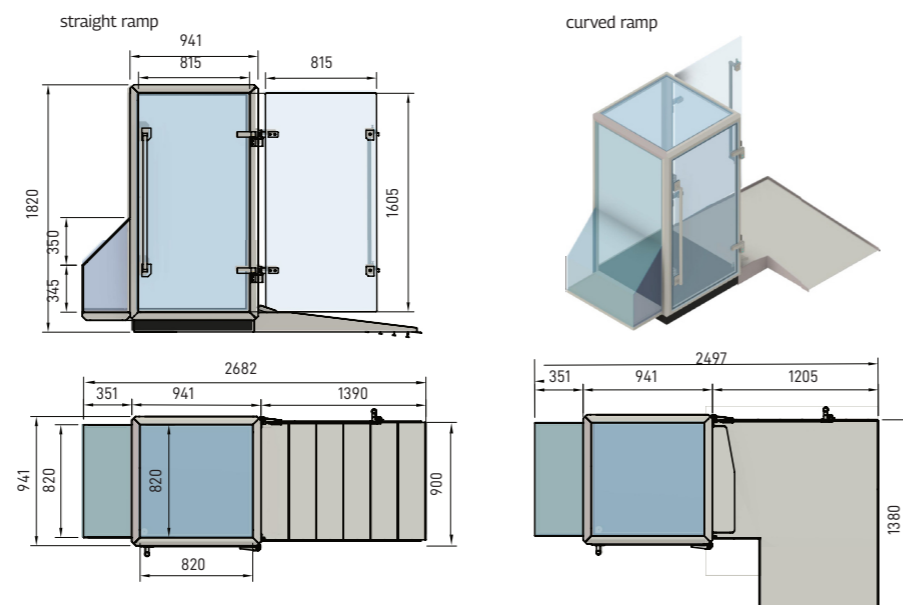
Standard cabin

This setup is exclusively equipped with spirometry and body plethysmography measurement capabilities and is ideal for retrofitting existing infrastructure.



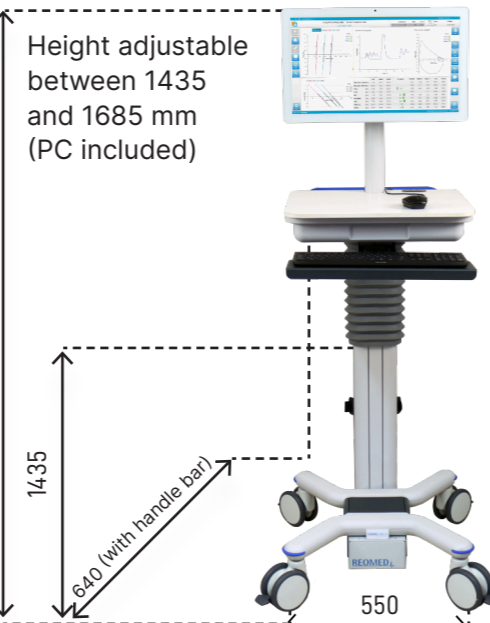
Wheelchair cabin

In contrast to the competitor's devices, you can also order the PowerCube in a truly barrier-free version. With this, body plethysmography is also possible with a wheelchair. Available as PowerCube Body+ Cabin with curved or straight ramp, standard or XL dimension.



Set-Ups

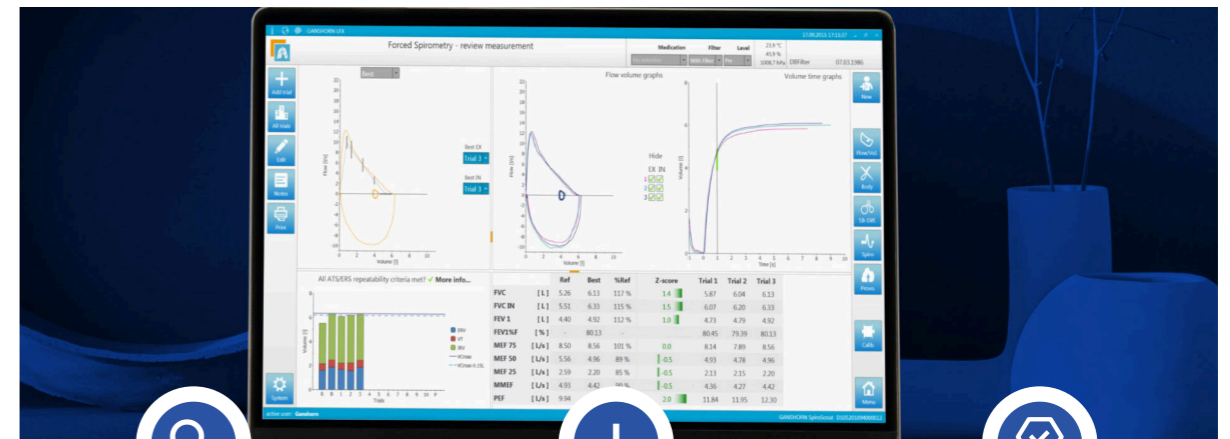
Seated workplace (excluded PC)



*Image similar

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

WHY GANSHORN?

For 40 years GANSHORN has been manufacturing a complete state-of-the-art portfolio of pulmonary function testing systems for spirometry, body plethysmography, 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 our high quality standards, it is important to us that all key components are made in Germany. Our devices are created in modern processes in Bavaria, from the initial idea to distribution. In the meantime GANSHORN is represented worldwide, with strong markets in Europe, Asia, North and South America.



PowerCube Body+

Body Plethysmography



SpiroScout

Spirometry



PowerCube Diffusion+

Diffusion measurement



Provo.X

Provocation testing



PowerCube Ergo

Cardiopulmonary exercise testing (CPET)



Vivatmo pro

FeNO monitoring



tremoflo®

Airwave oscillometry



EucapSys

EVH provocation



AltiTrainer

Hypoxic challenge testing, hypoxia training



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019950153 – Rev 3.0



The model shown may also include optional equipment which is not within the standard scope of supply. Design, equipment, and contents are subject to change without notice, as are misprints and errors.