Medical Measuring Systems and Scales since 1840

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seca austria

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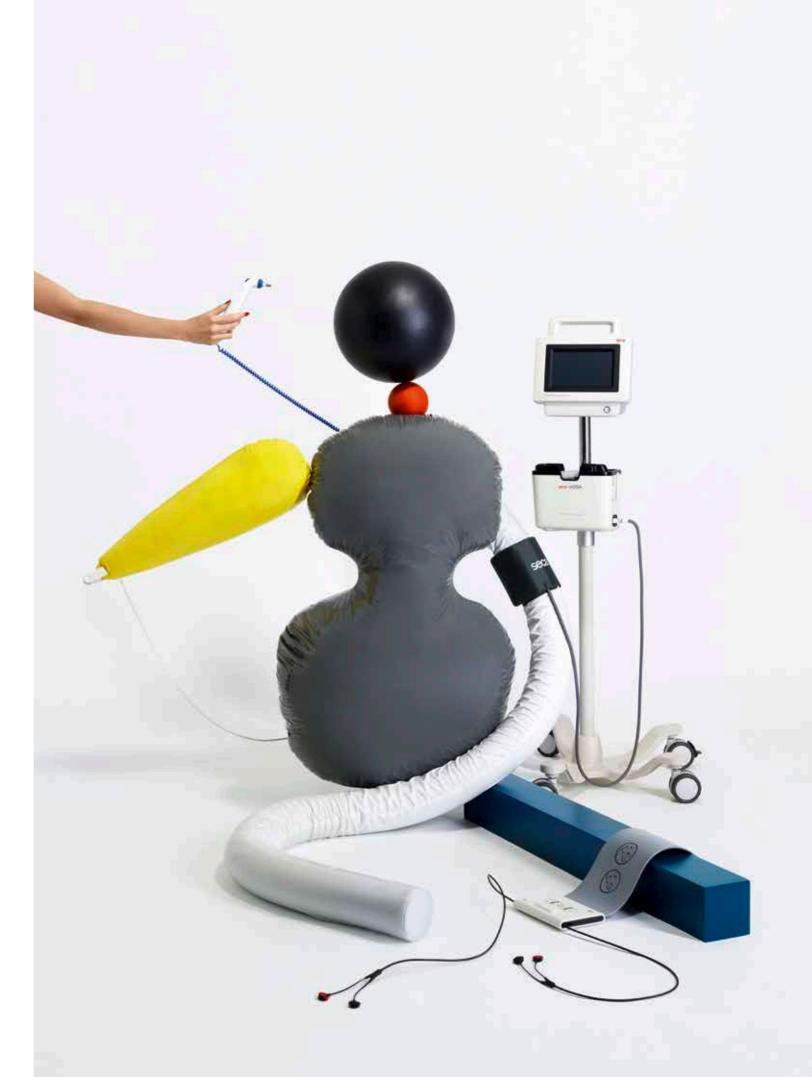
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Every question helps us improve.

For more information on products and the seca service, please call:

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Of course, you can also find answers to your questions online at:

www.seca.com

An innovation its worth

Doctors, nurses and other health care professionals value technology that supports them in their day-to-day work and helps them save time. Our products help to shorten routine procedures and prevent errors. The intuitive control systems save training time, while the high level of reliability and quality guarantees precise measurements every time. Our effective, global seca service network also contributes to this. Mobile or stationary, little or plenty of space, for constant or only

is something that proves in day-to-day work.

occasional use - we offer the right products for a wide range of conditions and requirements. The key factor, however, is that every seca product forms part of a system solution. This is the only way to ensure that devices can be fully integrated, processes networked and the number of work steps reduced.

Our products are sold through specialist retailers. This guarantees the level of reliability and service that you expect from us.



Robert M. Vogel CEO Sales & Marketing

CEO Development & Manufacturing CEO Finance & Services

Best-fit products by medical area of application







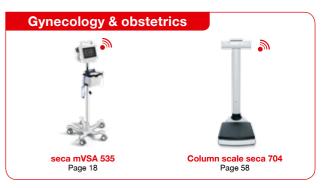


For more information on seca products or services, contact us at:

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seca innovations







12 seca mBCA 525 the new compact class for mobile body composition analysis



24 seca 360° wireless
the world's first wireless
product system



54 seca 287
wireless ultrasonic
measuring station for
height and weight with
voice guidance



seca|mBCA

Where BMI ends, the seca medical Body Composition Analyzer begin.

Solution with alone are not enough for a more extensive analysis of a patient's body composition. What about fat, muscle and water content? All of these are important indicators of serious diseases. This is precisely why we at seca developed medical Body Composition Analyzers, which provide all of these values and have been validated against the medical science gold standard*: It is thereby possible to determine the fat mass, visceral fat, extracellular and intracellular water or the skeletal muscle mass in a medically precise way. In short: The seca mBCA analyzers are innovative instruments for the support of diagnosis and therapy control and enable successful patient consultations.

With five decisive advantages for medicine

- Medically precise measurements.
- Assessment of the general health and nutritional status of the patient.
- Fast examination through short measuring times.

- Early indicators of various diseases.
- Exact monitoring of courses of therapy.

^{*} Studie

Bosy-Westphal A, Schautz B, Later W. Kehayias JJ, Gallagher D. What makes a BIA equation unique? Validity of eight-electrode multifrequency BIA to estimate body composition in a healthy adult population. Eur J Clin Nutr 2013; 67: 14-21; doi:10.1038/ejcn.2012.160

Simplified work, quick measurement and medically relevant results,

that is the seca mBCA 515.

The seca mBCA 515 is a medical Body Composition Analyzer, which is ideally adapted to the working conditions in hospitals and medical practices. After all, in order to obtain a truly meaningful BIA measurement (bioelectrical impedance analysis), we need to look beyond the many technical requirements. For one thing, the device has to be quick and easy to use for medical staff. For another, the measurement results have to be reproducible under normal clinical working conditions. These exact considerations went into the development of the seca mBCA 515.





The integrated touchscreen display not only allows you to enter patient data; it also enables you to monitor the progress of the measurement and conveniently analyze the results from many different perspectives.

The unique standing aid guarantees that the patient always stands in the same measuring position. This ensures the reproducibility of the measurement results.

seca | service

For seca mBCA 515:

- On-site seca mBCA installation service including seca network configuration
- On-site seca mBCA maintenance service



The data and measurements are sent via an Ethernet or wireless connection to the PC software, which then integrates them into the Electronic Medical Record (EMR) system via the internal network.



Hand-held electrodes prevent measurement errors and ensure that results are always reproducible.



The large, easy-access, fastcleaning, safety glass weighing platform is suitable for use by patients weighing up to 300 kg.

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The new benchmark in lying BIA measurement -

the seca mBCA 525.

he seca mBCA 525 is the mobile solution for bioelectrical impedance analysis (BIA). Its low weight, good handling and precise measurement technology make it very efficient and versatile. Its technology is oneof-a-kind in the world because fat mass, muscle mass, and body water are determined with a newly developed measuring mat. It is automatically networked by Wi-Fi to the touchscreen monitor, which can store up to 100,000 measurements. This enables many patients to be measured and courses of therapy to be reliably documented for years.



The clearly organized presentation of all measurement results simplifies diagnosis and thereby the patient consultation as well. The pressure-sensitive technology enables the menu to be operated even while wearing gloves or under a protective covering.





The correct placement of the electrodes is illustrated on the measuring mat. Each measurement only begins after an automatic electrode test.

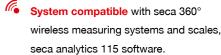


The electrodes have an Easy Snap™ mechanism and can be quickly connected with the adhesive electrodes without applying any pressure.

seca mBCA **525**

Technical data

- · Weight: 3 kg
- Medical device class: Ila
- Electrode type: adhesive electrodes (PVC-free)
- Dimensions (WxHxD): 252 x 262 x 230 mm
- Interfaces: Wi-Fi, Ethernet, USB 2.0, seca 360° wireless technology
- Measurement method: 8-point Bioelectrical Impedance Analysis
- Power supply: power adapter, rechargeable battery
- Display type: 7" touch-screen display • Measurement current: 100 μA
- Measurement time: 30 seconds
- Frequencies: 8
- Measured data storage: up to 100,000 measurements
- Housing made of flame-retardant plastic
- Optional: mobile stand seca 475, carrying case seca 432



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• 15

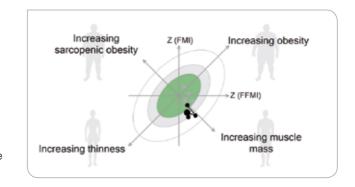
Clear analysis, clear presentation -

the seca mBCA analysis modules.

he analysis results of the seca mBCA analyzers offer the user numerous diagnosis options. With the precise analysis such as fat mass to body weight or extracellular to intracellular water indications of various illnesses can be detected. The seca mBCA 525 also includes the ability to save many measurements so that courses and progresses of therapy can be documented. The clearly organized graphical presentation of the measured values on the monitor or as a one-page printout is also very helpful for the patient consultation.

Body Composition Chart (BCC)

It seems simple to roughly differentiate between malnourished or obese individuals. However, an extremely thin patient can have a lot of body fat while a seemingly overweight patient can have a high amount of muscle mass. The clearly arranged presentation provides immediate information about the body composition of your patients so you can instantly draw conclusions for therapeutic decisions. Series of measurements enable the therapy to be reliably monitored and controlled.



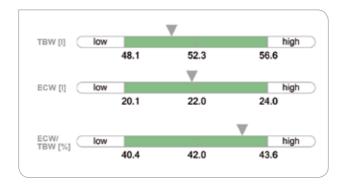
Fat mass / fat-free mass / visceral fat

The fat mass and fat-free mass can be quickly, reliably and precisely recorded only by means of a BIA measurement. It helps to determine and monitor the correct nutritional therapy. The amount of visceral fat can also be precisely determined, which is otherwise possible only through time-consuming imaging procedures. This enables an estimate of the cardiometabolic risk and helps with the determination of further therapeutic strategies.



Body water

Total body water, intracellular water and extracellular water are measured separately. This supports the detection of edemas, the improved evaluation of weight increase and decrease and the detection of states of dehydration.

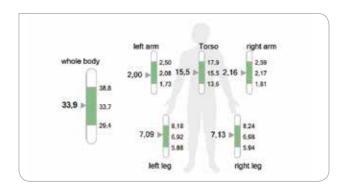




Increasing body cell mass obese Increasing proportion of water tean Decreasing proportion of water tean Decreasing body cell mass cachectic

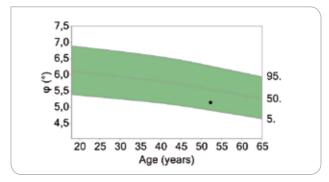
Bioelectrical impedance vector analysis (BIVA)

The BIVA forms an important diagnostic basis for nutritional medicine. The measuring point provides information about the state of hydration and the body cell mass, which provides a good overview of the general state of health and nutrition. This makes it possible to detect whether there is malnutrition or if an intervention by means of infusions is necessary, for example. Monitoring over the course of time is especially important for stationary treatments.



Skeletal muscle mass

The values for the torso and extremities are provided individually and displayed in a graphic. Increasing and maintaining muscle mass plays a key role in nutritional medicine because it helps to burn fat and positively influences the body's energy.



Phase angle

Studies* verify that a high phase angle shows a good condition of the cells and their functions. A very low phase angle is measured in the case of malnutrition and oncology patients, for example. It is a very good parameter for the general state of health. In diagnostics the severity of many illnesses as well as general states of exhaustion can be verifiably better determined.

Dittmar M. Reliability and variability of bioimpedance measures in normal adults: effects of age, gender and body mass. Am J Phys Anthropol 2003; 122: 361–370

^{*}Studies: Mattar JA. Application of total body bioimpedance to the critically ill patient. Brazilian Group for Bioimpedance Study. New Horiz 1996; 4: 493–503

Zdolsek HJ, Lindahl OA, Sjoberg F. Non-invasive assessment of fluid volume status in the interstitium after haemodialysis. Physiol Meas 2000; 21: 211–220

Dittmar M. Beliability and variability of bioimpedance measures in normal adults: effects of one gender and body mass. Am J Phys Anthropol 2003: 122: 361–370

Examination results are only as valuable as the analysis performed.

The seca analytics 115 PC software.

More in-depth analysis

The seca analytics 115 PC software does more than simply upload the examination results from the seca mBCA and seca mVSA analyzers to your PC. It expands on them significantly, for instance with a module for cardio-metabolic risk or a therapy planner.

seca 360° wireless

The measurements from the seca mBCA 515 and other seca 360° wireless products can be received wirelessly by a PC running the seca analytics 115 software. The seca mBCA 525 and seca mVSA 535 transmit the measurement results directly via Wi-Fi.

Digital patient files

Only EMR-integrated products such as seca analytics 115 can convert the data into the format required to process it in the Electronic Medical Record (EMR) systems.

Solid scientific foundation

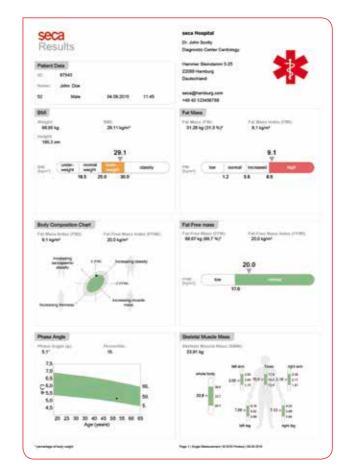
The seca mBCA analyzers and the seca analytics 115 PC software use the latest scientific references for the analysis and interpretation of the measurements.

With six decisive advantages for medicine

- Sets up the PC so that it can wirelessly receive the measurements of the seca mBCA, seca mVSA and other seca 360° wireless devices.
- Also, offers the Cardiometabolic risk module, the extension to the Raw impedance data module, additional interpretation options, trend curves and the therapy planner.
- Gan generate and print out clear graphs for all data either for patient records or to provide a clear structure for patient consultation.

- Stores all patient and examination data in a central seca database.
- 5 Enables clinics to take the first step toward digital patient records with EMR integration.
- With the necessary security, thanks to simple user account management and access rights.

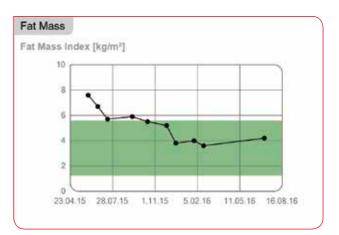




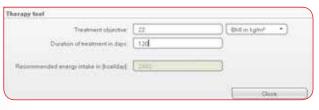
All examination results for each patient can be complied into a PDF of one or more pages. The findings can be ideally prepared for a personal consultation.



The additional module Cardiometabolic risk compares BMI and waist circumference to reference values, calculates the 10-year risk of coronary heart disease and checks whether a metabolic syndrome is present.



Trend curves document and monitor data such as the proportion of fat mass.



The therapy planner helps in the analysis of resting and total energy expenditure. It is becoming increasingly important, as more and more patients are suffering from malnutrition, overweight or obesity.

seca | service

For seca analytics 115:

- Remote or on-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

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seca|mVSA

The world's first medical Vital Signs Analyzer with BIA measurement.

The complex device measures the conventional four vital parameters of blood pressure, SpO₂, pulse rate, and temperature as well as the complete body composition consisting of fat mass, muscle mass, and body water. You can now measure more parameters in a routine check and broaden your diagnostic and therapeutic options through the combined view of bioelectrical impedance analysis (BIA) and vital signs. This high-performance software communicates with any network and guarantees the error-free transmission of all measurement values to your EMR system.

With four decisive advantages for medicine

- Four vital signs and BIA
 Ideal for a more in-depth body
 composition analysis and
 informed diagnoses.
- Configurability

 The seca mVSA can be individually configured to your needs.
- Connectivity
 Eliminates transmission errors
 and increases the efficiency of
 your routine measurements.
- The sophisticated technology provides reliable support you can count on.

More knowledge more quickly.

The new seca mVSA.

he multifunctional design of the seca mVSA broadens your medical options and has a wide variety of potential applications due to its compact size. All components are safely and hygienically stored on the device and the Wi-Fi connection option expands its operating range. As a network-compatible spot-check monitor, all measurement data can be reliably sent to your EMR system and all seca 360° wireless products can be integrated at the push of a button. Mobile work has never been easier.

seca mVSA 535

Technical data

- Dimensions (WxHxD): 252 x 262 x 278 mm
- Net weight: In-ear thermometer 3.7 kg
- Display type: 7" touchscreen display
- Power supply: Built-in power adapter, internal rechargeable lithium-ion battery
- Medical device class: Ila
- Interfaces: Wi-Fi, Ethernet, USB 2.0, seca 360° wireless technology
- Compatible printers: Conventional laser and ink jet printers via the seca analytics 115 PC software
- Blood pressure measurement: Oscillometric method
- SpO₂ measurement: pulse oximetry
- Temperature measurement: With in-ear thermometer or alternatively with your choice of oral/axial or rectal temperature probe
- Bioelectrical impedance analysis: 8-point technology from seca
- Possible to connect to all HID-compatible barcode scanners via USB
- System compatible with seca 360° wireless measuring systems and scales, seca analytics 115 software.



Medically precise. Modular. Versatile.

As if made for you.



Upgrade for seca mBCA 525*



seca mVSA 535

Spot-check-monitor for customized configuration

Included

NIBP

Selectable

- seca SpO_a technology
- · In-ear thermometer or oral/axial, rectal temperature probe
- seca mBCA 531 BIA measuring mat

Optional

seca 475 rolling stand

seca mVSA 526

Smart Bucket for the seca mBCA 525*

Included

NIBP

Selectable

- seca SpO_a technology
- In-ear thermometer or oral/axial, rectal temperature probe
- seca mBCA 525





Sphygmomanometer In-ear thermometer cuffs (sizes S-XL) 490 000x





Temperature





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seca SpO₂ finger clip (hard) for adults 490 0006

seca SpO_a finger clip (soft) for adults 490 0007



seca SpO₂ finger clip (soft) for children 490 0008

Components

Want retrofitting?

No problem!

If you do not yet need a temperature solution or the bioelectrical impedance analysis module when ordering your seca mVSA:

- seca mBCA 531 BIA measuring mat
- In-ear thermometer

These two articles can be conveniently ordered after the fact.

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Increases your performance and

improves your workflow.

onitoring vital signs is a time-consuming task in hospitals and medical practices. The seca mVSA was developed to support these routine checks and makes these measurements more efficient. Measure the four vital parameters of blood pressure, SpO_2 , pulse rate, and temperature in one work step using the components integrated into the spot-check-monitor. The thing that makes the seca mVSA one of a kind in the world is the additional option to measure body composition consisting of fat mass, muscle mass, and body water through a bioelectrical impedance analysis using the integrated measuring mat. You can measure the most important parameters and gain deeper insights into the health status of your patients. You thereby save time and gain additional certainty for the preparation of diagnoses and therapies.



After the measurement, all data required for a patient consultation, including vital parameters, BIA, height and weight, are immediately available* in an Electronic Medical Records system or in the software seca analytics 115 – and in the device's internal storage (up to 70,000 measurements can be saved).



The recommended rest phase of 5–10 minutes prior to the BIA measurement can be optimally used for measuring vital signs.



Simple scanning of the patient ID using a USB scanner in order to avoid mix-ups with patient assignment and transmission errors.

It is also possible to measure the vital parameters of children – no additional device required.



The integrated rechargeable battery and the stand guarantee high mobility and independence. Therefore it is not necessary to connect it to an external power source during the work day.

The sophisticated concept enables the simple removal and clean storage of all

Spot-check-monitor for better

health status evaluation.

he seca mVSA provides one-of-a-kind medical options. In addition to the variety of measurement values, it is the combination options of vital parameters and measurement values from the bioelectrical impedance analysis in particular that lead to a new and more comprehensive medical understanding.



Blood pressure

Blood pressure can be determined particularly quickly and gently using the inflation measurement method. The measurement technology also identifies if the cuff is incorrectly positioned and signals the user.



Bioelectrical impedance analysis

The complete body composition analysis of fat, water, and muscle components together with the vital parameters can be quickly carried out and offers a unique advantage for diagnoses and therapy evaluations.



SpO,

Reusable standard sensors and soft sensors are available for the seca SpO₂ technology. The soft sensors are made of silicone and are especially easy to disinfect.



Weight

The seca mVSA fits perfectly with the seca 360° wireless product range because the previously determined weight value can be transmitted directly to the device. This guarantees a paperless and error-free transmission of measurement values.



Pulse rate

The patient's pulse rate is always measured at the same time. With blood pressure measurement and with pulse oximeter.



Height

Just like height, weight can also be transmitted directly to the seca mVSA with seca 360° wireless products. This optimizes the workflow and eliminates transmission errors.



1 Temperature

In addition to the thermometer for in-ear measurement there is also an option for measurement using a temperature probe (oral/axial/rectal). The scope of delivery also includes sensor probe covers.



BMI BMI

The determined BMI provides the first orientation. In addition, the bioelectrical impedance analysis determines information on the fat, water, and muscle components to support a valid evaluation of the health status.



^{*} Height and weight can be entered manually or transmitted via seca 360° wireless products.



seca | 360° wireless

A new era in measuring and weighing!

magine – data wirelessly transmitted and then printed or received by a PC and analyzed by software that compares them to standard values. All measurements can be transmitted directly into the Electronic Medical Record (EMR) system of a hospital or doctor's practice and managed there. seca 360° wireless not only saves valuable time and prevents manual entry errors, but also provides doctors and staff with a whole new level of information about abnormal health and nutritional statuses among their patients.

With seven decisive advantages for medicine

- Wireless communication instead of cable connections.
- 2 System components can be set up anywhere.
- seca's own secure wireless protocol for simple and fast recognition of devices in the seca 360° wireless network.
- Paperless and error-free transmission of measurements.

- seca analytics 115 PC software for diagnostic assistance based on highly qualified analysis and assessment of the health and nutritional status of the patient.
- Graphic presentation of measurements and their comparison to standard values PDF or hard copy print-out.
- 7 Software seca emr flash 101 for direct transmission of measurements to any EMR system.

The future belongs to networks -

in medicine too.

If many experts join hands, they will work faster and more efficiently. That is the idea behind a network, and the same applies to the seca 360° wireless

network with the seca analytics 115 PC software for diagnostic support (or the seca emr flash 101 software for connecting seca 360° wireless products directly to the EMR system, see page 30). Here, the seca height measuring systems and scales are spread across several rooms, and can work wirelessly with any number of PCs. With seca analytics 115, the user can access the data of an EMR system via a central interface, store height and weight measurements and export the other analysis

data from seca analytics 115 as a PDF. This saves time not only

in measuring procedures, but in the documentation as well.

Treatment room with seca 704 column scale, seca 274 stadiometer and PC with seca analytics 115



More time for what really matters: receive the measurement results from several seca products on one central PC.

Doctor's office with PC and seca analytics 115



Higher quality consultation: the seca analytics 115 PC software compares the results with the standard values and presents them clearly.

EMR integration

The seca database can be stored on the central server.

Treatment room with seca 285 measuring station and PC with seca analytics 115



Measuring and weighing in one step. With seca analytics 115, all the measurement results are made available on the network straight after the examination.

Treatment room with seca 376 baby scale and seca 466 printer



No manual transfer required: simply send the measurements to the seca 360° wireless printer for immediate

PC in reception with seca analytics 115

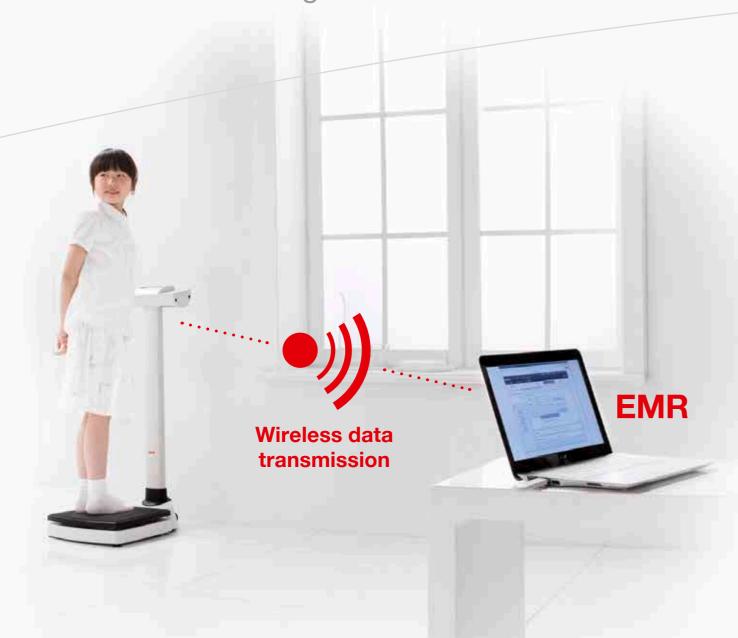


Store the patient data in the EMR and transfer them to the seca analytics 115 PC software.

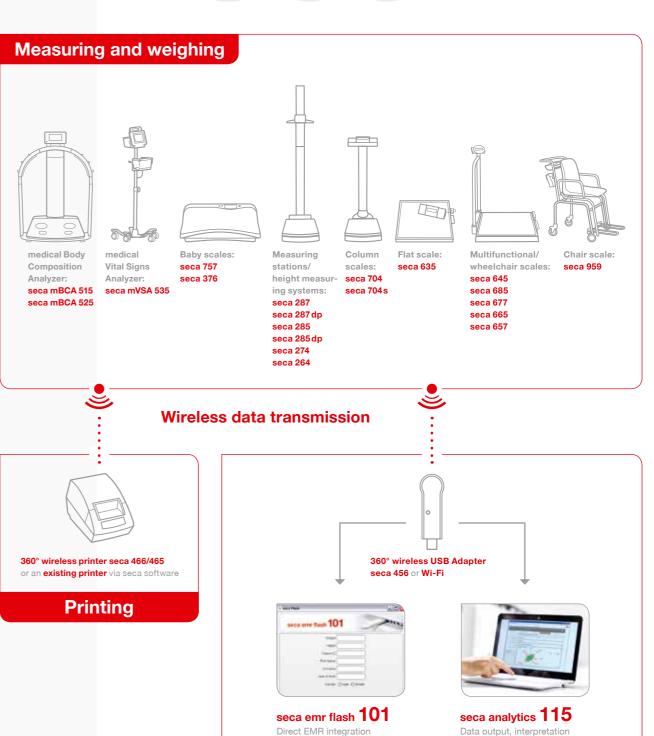
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One step ahead of the future:

direct EMR integration.



he wireless product system seca 360° wireless is the first of its kind in the world. Our products transmit their data as required via a special medical wireless protocol to a simple, fast and secure seca network. Within seconds, measurements are transmitted wirelessly and assigned to the correct patient ID in your EMR system, or transferred to a seca 360° wireless printer. This increased efficiency allows your facility to concentrate on what's really important — the well-being of your patients.



download on www.seca.com

EMR integration

and integration into EMR system

seca emr flash 101 -

software for connecting the seca 360° wireless products to EMR systems.

any devices bear the label "EMR-ready", but in practice that isn't enough. Only EMR-integrated products like the seca emr flash 101 and the seca analytics 115 software permit direct integration of data in an EMR system. They bring the data to internationally recognized standards (e.g. HL7 or GDT), which the EMR system requires for processing purposes. The only prerequisite is the USB adapter seca 456 for the PC, so it can receive the measurements from seca 360° wireless products.

EMR modules

seca offers pre-developed software modules for various EMR systems such as Allscripts Professional. These solutions are very user-friendly through plug and play because 99 % of all programming steps have already been carried out. It is also possible to connect via standard protocols (e.g. for the programming languages HL7 and GDT). Some support from the respective EMR system provider or the internal IT department is sufficient for integration into hospital or doctor's practice databases. One individually configurable programming aid is the API (Application Programming Interface). A module for a specific EMR system can be independently developed in simple programming steps.

seca keyboard module

The seca keyboard module is a data transmission module for the simple wireless transmission of height and weight into the desired electronic documentation by the click of your mouse.

seca directprint module

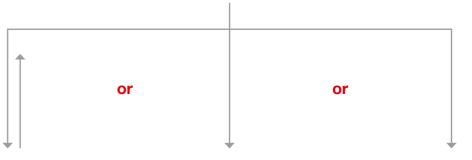
Our tool for the perfect patient consultation. The clearly organized presentation of the printout simplifies the qualified and efficient weight consultation.





seca emr flash 101

download on www.seca.com



Synchronization

EMR module



EMR synchronization

directly into the patient's file. All according to your wishes.

- EMR modules: Allscripts/ SystmOne/Cerner or
- Protocols: HL7/GDT or
- API (individual interface programming).

Transmission

seca keyboard module



Quick and easy transmission of height and weight to any interface directly into your electronic documentation (e.g. into Excel or Word).

Printout

seca directprint module



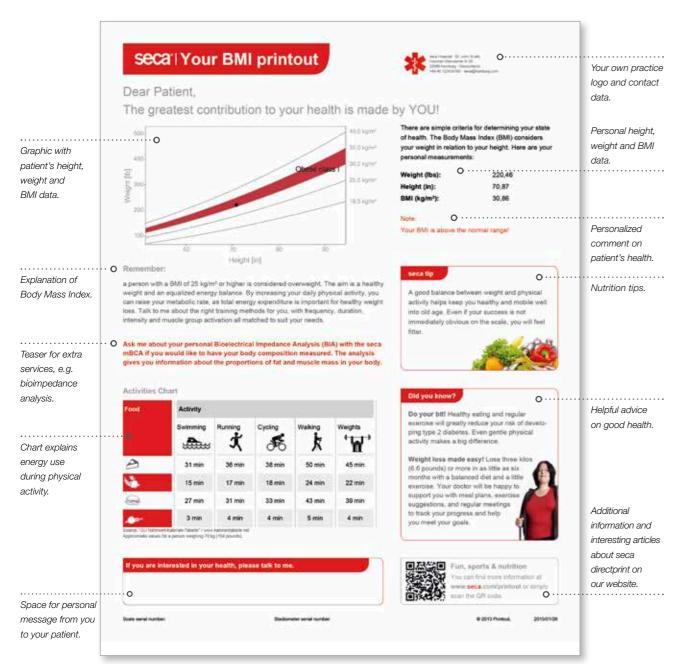
Individual **printout** with helpful information and tips for your patients. Further information on page 32.

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seca | directprint

A lightweight printout for a weighty subject.

he seca directprint is the ideal tool for raising awareness of maintaining a healthy weight. It doesn't just tell your patient's their height, weight and BMI, it also gathers together their measurements with lots of sound information and tips in an easy-to-read one page printout. Each patient can be individually addressed and provided with the information most important for them.



Example of seca directprint, version overweight patient.

Easy installation and handling -

without extra effort.

uickly and easily obtain an ad hoc health assessment of your patient. In a matter of seconds, you can wirelessly transfer all height and weight measurements to your existing printer and immediately receive an individual printout for your patients.



seca 287

Wireless ultrasonic measuring station for height and weight with voice guidance (alternative: seca 285)

seca directprint

Software module for individual ad hoc assessment of patient

seca 456

seca 360° wireless USB adapter for data reception on PC

seca directorint

One page printout on your existing printer

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Pediatric scales and measuring systems

Exact measurements: as important to life as the air we breathe.

That is why seca offers everything that makes it easy for doctors and nurses to measure and weigh infants – from a mobile measuring mat to a head circumference tape, and baby scales with a damping function that ensures reliable measurements despite movements.

Baby scales

Babies who feel safe and secure are easier to weigh.

B aby scales by seca make weighing fast and comfortable, thanks to the skin-friendly materials that immediately take on and radiate body warmth. With designs that make the baby feel safe and advanced functions that shorten the weighing process. The seca 360° wireless technology allows you transmit weight measurements quickly and securely without cable connections to a PC or printer.



Thanks to the additional measuring tape, the seca 757 enables a precise measurement of the babies' length.

seca **757**

Wireless baby scale with optimized damping system (III)

A special integrated damping system together with the HOLD function for quick, precise weighing even if the baby is restless. The ergonomically shaped tray with high rounded sides makes it easy to weigh larger babies. A new backlit LCD display ensures comfortable reading of the digits, even in dimmed rooms. Power supply is by power adapter or rechargeable batteries. With everything primed for the future and integration in any EMR system, measurements can be transmitted via the seca 360° wireless system.

- Capacity: 15 kg
- Graduation: 2 g < 5 kg > 5 g
- Functions: TARE, HOLD, Auto-HOLD, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: mobile carts seca 403 and seca 402

System compatible with products of the seca 360° wireless system.



The new backlit LCD display ensures an easy reading of the digits, even in dimmed rooms.

Can be operated by rechargeable batteries or power adapter.



Accessories

seca 403 seca 402

Carts for mobile support of seca baby scales

The seca 403 and seca 402 carts are ideal additions to the seca baby scales seca 757, seca 376, seca 336, seca 385 and seca 384. They were specially developed for safe and hygienic routine use in hospitals and medical practices. Customized indentations in the surface accommodate the scale's base and ensure that the scale does not slip out of place. Two practical brakes keep the cart stable so babies can be safely weighed. Also, you can quickly move the baby scale to its required location by pushing or pulling the cart by its handle. The optionally available paper roll holder seca 408 makes the work even more hygienic (seca 402).

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Wireless baby scale with extra large weighing tray (III)

Ergonomic, convenient and time-saving: these are the key words that define the seca 376. Its extra large tray lets you weigh a seated toddler of up to 20 kg, even if the child is fidgety. The adjustable damping function combined with the Auto-HOLD function ensures fast and precise work. Net weight of a diapered baby? Choose TARE. The amount of milk breastfed to a baby? Use the BMIF (Breast-Milk-Intake-Function). Measuring and weighing in one step? Yes - thanks to the optional measuring rod seca 233. Transmit the weight measurement wirelessly to the seca 360° wireless network? Just press SEND. You can do it from any location because the seca 376 is operated by batteries, so there's no need for electrical outlets.

- Capacity: 20 kg
- Graduation: 5 g < 7.5 kg > 10 g
- Functions: TARE, BMIF, HOLD, Auto-HOLD, weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: mobile carts seca 403 and seca 402, measuring rod seca 233, head and foot positioners seca 418, power adapter seca 447, switch-mode power adapter seca 400
- System compatible with products of the seca 360° wireless system.

seca | service

For seca 376:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support



High sides on weighing tray offer special protection from falling out.



With seca 360° wireless technology and the press of a key, the seca 376 can send every measurement to a seca wireless printer or to software seca analytics 115 on the PC.



Power supplied by batteries for mobile use

Accessories

seca **233**

Measuring rod for baby scale seca 376

The measuring rod seca 233 with integrated head and foot positioner turns the seca 376 into a complete measuring and weighing system. A single time-saving step for measuring and weighing is made possible by the easy assembly and effortless read-out of results.

- Measuring range: 35-80 cm
- Graduation: 1 mm



The optional measuring rod allows simultaneous weighing and height measurement.

Accessories

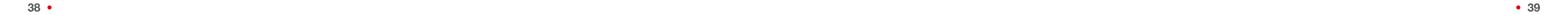
seca 418

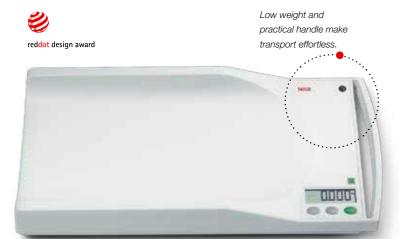
Head and foot positioner for baby scale seca 376

Easy and convenient: the head and foot positioner seca 418 can easily be attached to the baby scale seca 376. This accessory increases safety by securing baby at head and feet. Integrated handles also make it easier to transport the seca 376.



Head and foot positioner can be easily adjusted for all-around security.





Mobile electronic baby scale (III)

The battery-operated scale with large, easy-to-read LCD display combine innovative technology with space-saving design. Due to its low weight and integrated handle (can also be used for hanging the scale), it is easy to transport and is quickly ready for use anywhere. The optional measuring rod seca 232 allows measuring and weighing in one step.

- Capacity: 15 kg
- Graduation: 10 g
- Functions: TARE, HOLD, automatic switch-off
- Optional: mobile carts seca 403 and seca 402, measuring rod seca 232, head positioner seca 419, power adapter seca 447, switch-mode power adapter seca 400, carrying case seca 428



seca **428**

Carrying case for baby scale seca 336

The baby scale seca 336 can be safely and efficiently transported in this customized carrying case of water-repellent material equipped with a shoulder strap and practical padding.

Accessories

seca **232**

Measuring rod for baby scale 336

Just as easy to fit as it is to read. This baby measuring rod with integrated head and foot positioner makes the seca 336 even more efficient because now weighing and measuring can be done in one step.

- Measuring range: 35-80 cm
- Graduation: 1 mm



The optional measuring rod allows measuring and weighing in one step.



The baby scale can be easily stored and transported.



seca 385 seca 384

Electronic baby scale with fine graduation, also usable as flat scale for children (III)

Two scales in one: the seca 385 and seca 384 baby scales with a comfortable weighing tray. In no time at all, it can be converted into a floor scale for children with a capacity of 50 kg (seca 385) or 20 kg (seca 384). The weighing tray and the base which serves as the floor scale are securely locked together, thus ensuring that the baby can be weighed absolutely safely. A further advantage of the scale is its Breast-Milk-Intake-Function which determines how much milk the baby has consumed. The robust but lightweight scale is easy to transport; self-explanatory buttons make it easy to operate.

seca 385

- Capacity: 50 kg
- Graduation: 10 g < 10 kg > 20 g < 20 kg > 50 g
- Functions: TARE, BMIF, HOLD, weighing range switch-over, automatic switch-off
- Optional: mobile carts seca 403 and seca 402, measuring board seca 417, backpack seca 409 (for combination with measuring board or measuring mat), carrying case seca 414 (for combination with measuring board), seca 431 and seca 413

seca 384

- Capacity: 20 kg
- Graduation: 10 g < 10 kg > 20 g
- Functions: TARE, BMIF, HOLD, weighing range switch-over, automatic switch-off
- Optional: mobile carts seca 403 and seca 402, measuring board seca 417, backpack seca 409 (for combination with measuring board or measuring mat), carrying case seca 414 (for combination with measuring board), seca 431 and seca 413

ca added value

Baby scales that can also weigh toddlers? There is such a thing – from seca of course. The high capacity of the seca 385 lets you weigh toddlers and children. Simply remove and set aside the weighing tray for babies and the scale is ready for heavier loads of up to 50 kilograms.



The weighing tray can be removed quickly and easily at the touch of a button.

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Electronic baby and child scale with high capacity and double use (III)

With its dual function, this baby scale is a small sensation: at the touch of a button, the tray can be detached quickly and easily from the base, leaving you with robust flat scales for children weighing up to 20 kg. As the two elements are securely connected, it is absolutely safe to lift and transport the scales. The softly rounded shape of the tray gives the baby a feeling of safety and security. The Breast-Milk-Intake-Function shows the exact amount of milk the baby has consumed.

- Capacity: 20 kg
- Graduation: 10 g < 10 kg > 20 g
- Functions: TARE, BMIF, HOLD, weighing range switch-over, automatic switch-off
- Optional: mobile carts seca 403 and seca 402, measuring board seca 417, backpack seca 409 (for combination with measuring board or measuring mat), carrying case seca 414 (for combination with measuring board), seca 431 and seca 413



Thanks to the removable weighing tray, even toddlers up to 20 kilograms can be weighed.





seca **431**

Backpack for the comfortable and safe transport of the baby scale seca 384

The seca 431 was designed for comfortable and safe transport. The straps and the padding make it a versatile backpack that can also be used as a bag. The water-repellent, high-quality material keeps the baby scale seca 384 protected and dry.



seca 413

Carrying case for baby scale seca 385, seca 384 or seca 834

With this case, baby scales seca 385, seca 384 or seca 834 can be transported comfortably and safely. The exact fit of the seca 413 provides optimum protection and the large opening facilitates the packing and unpacking of the scales. An adjustable shoulder strap makes transport easier and the water-repellent nylon surface keeps everything dry.



seca **745**

Mechanical baby scale with sliding weights (III)

This model combines classic design with high-quality precision mechanics. Determining an exact weight is child's play, thanks to the smooth movement of precise sliders. The gently curved weighing tray keeps the baby safe during every step of the weighing process. The resetting function that puts the scale back to zero lets the user reliably determine net weight. Before the baby is weighed, the weight of soft padding in the tray or of the baby's diaper can be deducted from the gross weight with use of the reset-to-zero function. The impact-resistant and scratchproof finish makes it easy to care for the seca 745 and contributes to the scale's guaranteed long service life.

- Capacity: 16 kg
- Graduation: 10 g
- Functions: reset-to-zero function



The reset-to-zero function guarantees reliable determination of net weight by simply deducting the extra weight of padding or diaper.

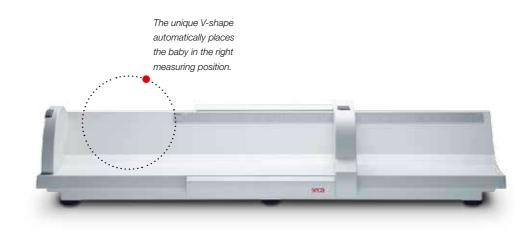
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Pediatric measuring systems

Adaptable devices are preferred.

linics, medical practices and health care facilities have varied conditions and requirements. seca responds with a wide range of products for pediatrics – from the infantometer to measuring mat and from measuring rods to the head circumference measuring tape. seca has the right solution for every application, whether the devices are for in-patient or mobile use, in large or small spaces, for everyday or infrequent use. They all share the renowned seca quality which always lives up to the most demanding medical requirements.





seca **416**

Infantometer for measuring babies and toddlers

The sturdy construction and stability of the infantometer makes it quick and easy to measure babies and toddlers up to two years old. The board is generously designed and the raised and softly rounded sides guide the baby easily and safely into the right position. Permanently mounted with rollers on two guide rails, the footpiece slides smoothly along the scale. Because the footpiece is lockable, the baby can be removed and the result noted later. All parts are tough and durable.

- Measuring range: 33-100 cm
- Graduation: 1 mm

seca added value

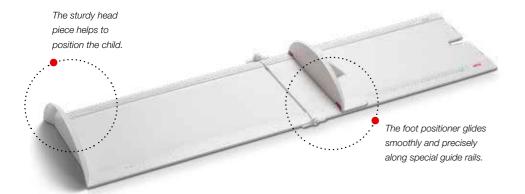
An infantometer with a lock-in-place footpiece? There is such a thing – from seca of course. The footpiece on the infantometer seca 416 smoothly slides into position, but cannot be displaced by baby's stomping feet. With the footpiece firmly in place, you can simply measure and read the results. No more readjustments made necessary by a restless baby.





The foot positioner locks into place to capture results.

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Light, space saving and stable measuring board also ideal for mobile use

The seca 417's fold-up mechanism and low weight make it compact and easy to transport. For all that, the removable foot stop is securely guided along rails. The measuring board is simple to use and, thanks to its smooth surface, easy to clean. Durability and a long service life are guaranteed by high-quality materials.

- Measuring range: 10–100 cm
- Graduation: 1 mm
- Optional: baby scales seca 385, seca 384 and seca 834, backpack seca 409 or carrying case seca 414 (each for combination with baby scale) and seca 412



The high-quality folding mechanism guarantees a long service life.



The measurement results are easy to read from the large scale.



Accessories

seca 412

Carrying case for measuring board seca 417

Thanks to its folding mechanism, the mobile measuring board can be stored away compactly and easily transported in this tailor-made carrying case. The robust finish and the durable, water-repellent surface make the bag an indispensable accessory for measuring board seca 417.

Possible combination

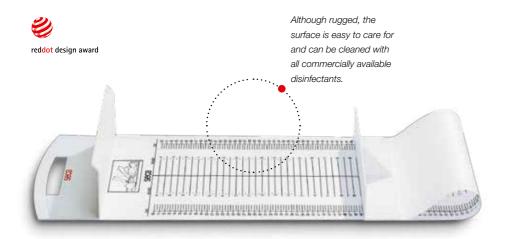
seca 385/384/834, seca 417 and seca 414

The mobile measuring and weighing system for babies and toddlers

Easy-to-use, space-saving, mobile: the mobile measuring and weighing system by seca. To weigh and measure babies and toddlers in a lying position, with double-use baby scale seca 385, seca 384 or seca 834 and the measuring board seca 417.

Packed in the carrying case seca 414 for simple, lightweight and convenient transport.

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Mobile measuring mat for babies and toddlers

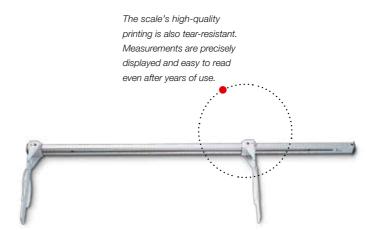
The seca 210 is a lightweight and space-saving solution for precise measurement of the length of babies and toddlers while lying down. While kind to the skin, the 210 is washable and foldable. The fixed head piece and the sliding foot positioner make it simple to use.

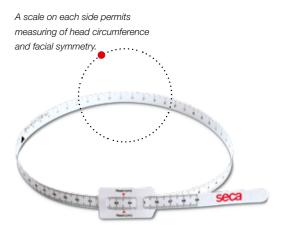
- Measuring range: 10-99 cm
- Graduation: 5 mm
- Optional: backpack seca 409 (for combination with baby scales), carrying case seca 414



The measuring mat can be rolled up for space-saving storage.







seca **207**

Baby measuring rod with large calipers

For precise measuring when a baby is lying down. The measuring rod can be firmly screwed to the changing table (wall mounting also possible) or used as a mobile rod. Large head and foot positioners make it easy to determine the length and the calipers fold for ease of storage. Made of aluminum for durability.

- Measuring range: 0-99 cm
- Graduation: 1 mm

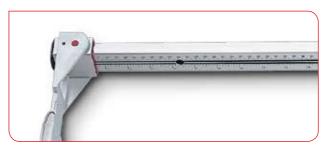
seca **212**

Reusable measuring tape for head circumference of babies and toddlers

The measuring tape is made of non-stretch material and measures both the head circumference (front side) and the symmetry of the face (reverse side). A practical dispenser (containing 15 tapes) ensures that they are stored safely.

- Measuring range: 3–59 cm
- Graduation: 1 mm





Movable calipers at one end of the measuring rod make this instrument suitable for use with both babies and toddlers.



Precise and easy-to-read measurements made possible by clear red markings.



Disposable measuring tape in practical wall dispenser

The environmentally friendly and high-quality disposable measuring tapes simplify your hectic routine work. They can be individually removed from the practical wall dispenser for hygienic use. The wall dispenser is space-saving as well as easy to install and refill.

- Measuring range: 0-100 cm
- Graduation: 1 mm





Extra space to write down name, height, weight and date.

Simple refilling of up to 100 measuring tapes.





seca **211**

Disposable measuring tape for head circumference in practical wall dispenser

The seca 211 measuring tapes are designed to be user-friendly and easy to read with clearly visible measuring points to ensure precise results. The strength of the tape is optimal for easy tearing and refilling. The measuring tapes are recyclable and therefore environmentally friendly. The wall dispenser can be easily installed anywhere.

- Measuring range: 12-59 cm
- Graduation: 1 mm



500/1,000 pcs. per unit



The seca 211 and seca 218 are available in a pack of 500 (with dispenser) or 1,000 pieces.





Measuring stations and column scales

What can a scale do besides weigh? Think.

The measuring stations and column scales by seca are distinguished by high precision and many features that simplify everyday medical work. Routine procedures are shortened, measuring and weighing are sped up and measurements from some products are transmitted to a PC or seca 360° wireless printer. Thus, doctors and nurses always have the data they need at hand, even the minor details like intuitive operation or easy cleaning of the platforms get a lot of attention at seca.

The measuring stations by seca

measure and weigh in a single step.

he measuring stations by seca are a big help in everyday medical work. Thanks to the combination of measuring rod and scale, height and weight can be digitally obtained in a single procedure. There's no longer any effort involved in figuring out the BMI. Once the patient's height has been confirmed, the BMI appears in the display.



Height, weight, and BMI - automatically determine, display, and send? This revolution from seca takes care of everything at once. The seca 287 works fully automatically in the seca 360° wireless network and sends all measurement results to the printer or PC. Trust in the 175 years of experience in German medical engineering and increase your flexibility.

seca I service

For seca 287:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

seca **287**

Wireless ultrasonic measuring station for height and weight with voice guidance III

With the seca 287 we have redefined the technical limit of our measuring stations. Three pairs of ultrasonic sensors record the patient's height in milliseconds. The regular Autocalibration ensures precise results. Everything is calculated using a specially developed digital analysis algorithm that ensures an incomparably high degree of measurement precision. The optionally activated/deactivated voice guidance is programmed for independent measurement so that individual and series measurements can be made reliably, precisely and fully automated. The seca ultrasonic sensors deliver reliably precise measurement results even in continuous operation, whereby the entire measurement is very comfortable due to the silent acoustics. Everything is designed for maximum support of automated measurement: from the voice guidance to the EMR system connection to the practical printout of the measurement results.

Scale:

- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: pre-TARE, mother/child-function, HOLD, Auto-HOLD, Auto-BMI, CLEAR, Auto-CLEAR, auto weighing range switch-over, damping, SEND/PRINT
- Version: seca 287 dp with directprint function available
- Optional: wireless printer advanced seca 466 and printer holder seca 482, wireless printer seca 465 and printer holder seca 481

Length measurement:

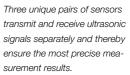
- Measuring range: 60-210 cm
- · Graduation: 1 mm
- Ultrasonic technology: 3 pairs of sensors (3 receivers, 3 transmitters)
- Auto-calibration



System compatible with products of the seca 360° wireless system.









With the wireless printers seca 466 and seca 465 the measurement results can be immediately printed out or the data can be transmitted directly to an EMR system.

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Wireless measuring station for body height and weight (III)

The 360° wireless measuring station seca 285 measures and weighs in a single step. Other benefits include the high-capacity scale integrated in a stable glass platform, the heel positioner and the solid headpiece with the integrated seca Frankfurt Line – for precise head positioning. The seca 285 is equipped with two displays, one is for a direct read-out of height from the headpiece and the other, a three-line multi-function touch display that shows height, weight and the automatically calculated BMI. On top of all that, the scale shows the slightest weight changes with its fine 50-gram graduation and transmits all measurements via the seca 360° wireless.

Scale:

- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: pre-TARE, mother/child-function,HOLD, Auto-HOLD, Auto-BMI, CLEAR, Auto-CLEAR, auto weighing range switch-over, damping, SEND/PRINT
- Version: seca 285 dp with directprint function available
- Optional: wireless printer advanced seca 466 and printer holder seca 482, wireless printer seca 465 and printer holder seca 481

Measuring rod:

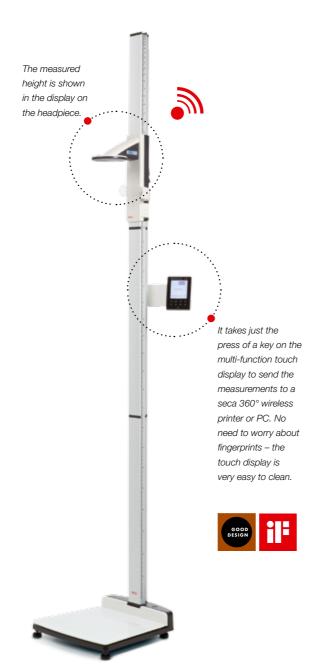
- Measuring range: 30–220 cm
- Graduation: 1 mm
- Functions headpiece: HOLD, user-defined zero setting, automatic switch-off, SEND/PRINT



seca | service

For seca 285:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support





The Frankfurt Line, which is offered only by seca, makes sure the patient's head is in exactly the right position.



The stable glass platform with integrated heel positioner guarantees precise measurement results and a secure foothold, even on a free-standing scale in the middle of the room.



seca directprint versions



Obtain an easy-to-read one page printout with your patients measurements.

seca 287 dp seca 285 dp

Wireless measuring station for height and weight with directprint function (III)

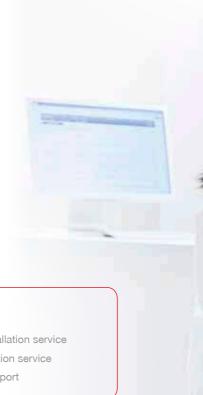
The seca directprint is the ideal tool for raising awareness of maintaining a healthy weight. It doesn't just tell your patient's their height, weight and BMI, it also gathers together their measurements with lots of sound information and tips in an easy-to-read one page printout. In seconds, it provides the ideal ice-breaker for your overweight patients because it draws attention to the subject of overweight and obesity without direct confrontation.

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The column scales by seca

help wherever they can.

A fter more than 176 years, it's nearly impossible to imagine the medical field without seca scales. Thanks to the high precision, durable construction, and robust electronics, it is clear that there are precise details that go into every seca scale. Details like unmatched low energy consumption or smooth-rolling castors, make for effortless transport into the next room.



seca | service

For seca 704:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

a added value

A column scale that can receive height measurements and then calculate the BMI? There is such a thing – by seca, of course. With the help of the new seca 360° wireless technology, the seca 704 can receive data from a wireless stadiometer (seca 274 or seca 264) and then automatically calculate the BMI from height and weight. Do the results need to be sent wirelessly to a PC or to a seca 360° wireless printer? It's as easy as pressing the function key.

seca **704**

Wireless column scale with capacity up to 300 kilograms (III)

Weighing small children to obese patients – the seca 704 can do it all. Especially when it comes to finding out BMI and height. Then there are two options: integrate a mechanical measuring rod or receive data wirelessly from a separate digital stadiometer. Other advantages include the high load bearing capacity of up to 300 kg for heavyweight patients, the large and flat platform and time-saving functions Pre-TARE, HOLD, Auto-HOLD and mother/child-function. With everything primed for the future and integration in EMR using the seca 360° wireless.

- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: TARE, pre-TARE, mother/child-function, HOLD, Auto-HOLD, BMI, Auto-CLEAR, damping, automatic switch-off, SEND/PRINT
- Version: seca 704r with integrated RS232 interface
- Optional: measuring rod seca 220 or seca 224, power adapter seca 447, switch-mode power adapter seca 400, PC interface cable seca 451 (only for seca 704r)

System compatible with products of the seca 360° wireless system.





Optional telescopic measuring rod.

Practical castors permit mobile use.



With the seca 360° wireless technology and the press of a key, the seca 704 can send measurements to an optional seca 360° wireless printer or seca software on the PC.

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seca **704** S

Wireless column scale with integrated measuring rod (III)

Measuring and weighing in a single step - that is why the wireless column scale seca 704s was developed. In addition to the patient's weight, the patient's height is also precisely measured with an integrated measuring rod up to 230 cm. The seca 704s automatically determines the BMI from these two values. As part of the seca 360° wireless family, the results can immediately be sent wirelessly to a printer or PC. Intelligent details simplify operation so the display can be operated when the patient is still standing on the scale and reading the measuring rod is easy through the printing on both sides. Using the time-saving TARE function, also known as the mother/child-function in pediatrics, the child can be weighed in its mother's arms without disturbance. The previously stored body weight of the mother is subtracted so that only the weight of the child is obtained. The heel positioner also makes reproducible height measurements possible by means of 3-point measurement.

Scale:

- · Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: TARE, pre-TARE, mother/child-function, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: power adapter seca 447, switch-mode power adapter seca 400

Measuring rod:

- Measuring range: 6-230 cm
- Graduation: 1 mm

System compatible with products of the seca 360° wireless system.

seca | service

For seca 704 s:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

It's very easy to read the numbers printed on the side.

Practical castors permit mobile use.

seca **799**

Electronic column scale with BMI function (III)

Versatile, low-maintenance and site-independent with eco-nomic battery operation – the seca 799 is ideal for daily use in hospitals and doctors' practices. With its transport castors, the column scale is also easy to move around. The seca 799 is equipped with several intelligent functions. For example, the BMI function permits a reliable evaluation of the nutritional condition of the patient. The column scale can also be fitted with the optional measuring rod seca 220 or seca 224 so that both height and weight can be determined in just one time-saving step.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: TARE, HOLD, BMI, weighing range switch-over, automatic switch-off
- Optional: measuring rod seca 220 or seca 224, power adapter seca 447, switch-mode power adapter seca 400



Accessories

seca **224**

Side-mounted telescopic measuring rod for seca column scales

This telescopic measuring rod can be fitted to many existing seca column scales. Its side mounting position means the measuring piece is always positioned centrally and above the head, even with overweight patients, thus enabling trouble-free measurement.

- Measuring range: 60–200 cm
- · Graduation: 1 mm



The optional telescopic measuring rod on many seca column scales allows simultaneous measuring and weighing.

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All it takes is the press of a key to find out BMI.

The slip resistant surface with an anti-tip column design guarantees a safe and secure foothold.

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Mechanical column scale with eye-level beam (III)

With a capacity of 220 kg, this mechanical column scale is the ideal solution for weighing even overweight patients. This is due partly to the generously proportioned, low platform. The scale is printed on both sides to allow both the patient and the user behind the scale to read the weight. The high-quality base is made of cast iron, the column from steel - this guarantees not only firm footing, but also a long service life. The column scale can also optionally be fitted with the seca 220 measuring rod.

Capacity: 220 kg

Graduation: 100 g

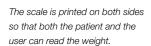
Functions: reset-to-zero function

Optional: measuring rod seca 220











The broad and flat construction provides easy step-on access and a firm foothold.

Accessories

seca **220**

Telescopic measuring rod for seca column scales

This telescopic measuring rod can be fitted at any time to many seca column scales. It has the same convenient eyelevel read out even for taller patients.

- Measuring range: 60-200 cm
- Graduation: 1 mm



The optional measuring rod allows convenient weighing and measuring in one step.

seca **756**

Mechanical column scale with BMI display @

The seca 756 is one of the first mechanical column scales which displays weight and the nutritional condition of the patient with the BMI function. When the patient steps onto the scale, a BMI disc of contrasting color is set in motion below the very precise weight display on the large, clear dial. It is visible in a small window next to which a height scale is printed. Once the weight has been determined, it is easy to read the BMI range which, with contrasting colors, is split up into underweight, normal, overweight and obesity (abnormally overweight). A flat tread area and practical transport castors are further advantages of the seca 756. The column scale is also available with measuring rod.

· Capacity: 160 kg

Graduation: 500 g

· Functions: BMI, reset-to-zero function

• Optional: measuring rod seca 224





The separately available measuring rod permits simultaneous measuring and weighing.

It is easy to determine BMI with the color-coded dial.

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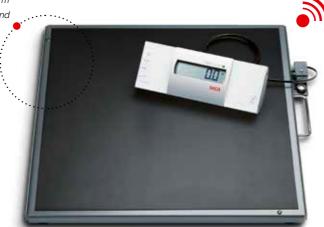


Flat scales

Even space-saving scales do plenty for the patient.

here space is limited, there is still enough room for seca scales and their many functions. Routine medical work is made easier. Other features of seca flat scales include the high weight-bearing capacity of up to 300 kilograms and the extremely long usage, powered by a battery set. Practical accessories such as carrying cases and a stand for a separate display, make work easier for the user.

The extra-large platform is easy to step onto and slip proof.



seca **635**

Wireless platform and bariatric scale (III)

Obesity is the fastest growing health problem in the world. This battery-operated digital scale has been especially developed for weighing obese patients, with a weighing range of up to 300 kg and a non-slip 56 x 56 cm platform, only 5.5 cm high a sturdy base for overweight or obese patients. A chair may also be used on the scale and will not influence the weighing result due to the pre-TARE function. The cable remote display (cable length: 2.5 m) with easy-to-read LCD can be held, wall mounted or placed on a table. The 100 g graduation means that the smallest changes in weight are registered, even after the patient has left the scale – thanks to the HOLD function. The integrated Body Mass Index (BMI) function and the seca 360° wireless technology, which can be used to transmit the measurements to a seca wireless printer or PC at the push of a button emphasizes the many uses of this unique multifunctional scale.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Version: seca 635 r with integrated RS232 interface
- Optional: stand for cable remote display seca 472, power adapter seca 447, switch-mode power adapter seca 400, PC interface cable seca 451 (only for seca 635 r)
- System compatible with products of the seca 360° wireless system.

seca | service

For seca 635:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

seca added value

Flat scales for heavy weight patients with a separate display element? There is such a thing – from seca of course. It is the platform and bariatric scale seca 635. The advantage of the mobile display provides medical staff with the ability to read the results from any location – discreetly and conveniently at a desk, at eye-level on the wall or from a stand in the middle of the room.



The patient's BMI can be determined when their height is entered.

It's easy to step onto the extra large, slip proof platform.



Accessories

seca 472

Stand for cable remote display of seca scales

The seca 472 stand is the stable solution for cable remote displays of seca 635, seca 657 and seca 675 scales. The sturdy construction with non-slip steel feet can be positioned anywhere quickly and securely. The display element can easily be attached to the stand by means of a stable bracket.



Accessories

seca 421 Carrying case

This carrying case is made from water-repellent material to allow safe transportation of the seca 899 flat scale. The handy side pocket also allows safe transportation of a cable remote display or other accessories.



seca **899**

Flat scale with cable remote display

A two-meter long cable connects the display with the weighing base. Advantage: the display can be set up separately from the base and read from its position on the wall or desk. Additional convenience is supplied by the many extra weighing functions: BMI for nutritional conditions, HOLD to keep measurements displayed and TARE for weighing small children held in an adult's arms. It is suitable for stationary or mobile use thanks to its handle, compact size, low weight and a leveling base for set-up on all types of surfaces.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- · Functions: TARE, HOLD, BMI, automatic switch-off
- Optional: stadiometer seca 217 combined with adapter element seca 437, power adapter seca 447, backpack seca 409 or carrying case seca 414 (for combination with stadiometer and adapter element) and seca 421



The angle of the display can be adjusted for easy reading and can be used separately from the base.

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Flat scale for mobile use with push buttons and double display (III)

The seca 878 can do everything that a scale in mobile use should do and more. It is light, extremely robust, easy to operate, provides precise measurements in any level of humidity and has a long battery life – or can alternatively be connected to the mains. When conducting one examination after the other, there's no need to bend over repeatedly, thanks to the push button that can be turned on and off with a toe tap. The double display lets the patient and medical personnel read the results from two different aspects at the same time. Thanks to the 2-in-1-button, the scale can weigh a child held in its parent's arms.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: mother/child-function, HOLD, automatic switch-off
- Battery-operated or using power adapter
- Optional: stadiometer seca 217 combined with adapter element seca 437, power adapter seca 447, switch-mode power adapter seca 400, backpack seca 409 or carrying case seca 414 (for combination with stadiometer and adapter element) and seca 415



The two push buttons on the front side of the scale can be operated with the foot.



Accessories

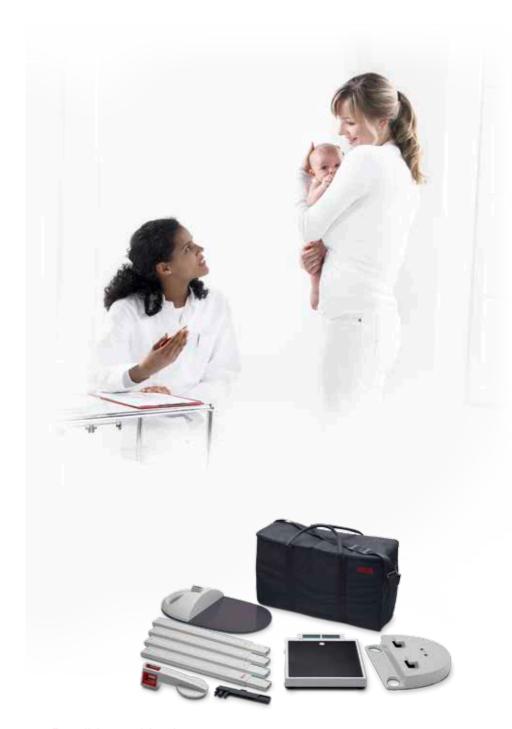
seca 409

Backpack for varied use

Those who transport their devices as a mobile nurse or midwife have clear material requirements. The multifunctional backpack seca 409 was therefore developed out of high-quality and water-repellent materials in cooperation with UNICEF. Wide, padded shoulder straps and carrying handles made it comfortable to carry and guarantee a high amount of comfort even on longer trips. Baby scales, flat scales, or measuring boards can thereby be transported easily and especially safe in various possible combinations.

eca added value

A mobile measuring and weighing system? There is such a thing – from seca of course. With the addition of the adapter element seca 437 for the measuring rod seca 217, the flat scale seca 878 turns into a mobile and very stable 2-in-1-solution. Measuring and weighing can be done at the same time – with the same quality as with permanently installed equipment. When stored in the carrying case seca 414, the mobile measuring and weighing system can be used anywhere.



Possible combination

seca 878, seca 217, seca 437 and seca 414

Mobile measuring and weighing system for schoolchildren and adults

To determine height and weight of school children and adults in a standing position, a special adapter element turns the stadiometer and flat scale into a perfect measuring and weighing station. It delivers two measurements in one step – with the same quality found in hospitals. Even though the elements are lightweight and easily assembled, the system is extremely stable and warp-resistant. Almost like a permanent installation.

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Flat scale for mobile use @

Scales intended for mobile use have to be lightweight. The compact seca 877 weighs only 4.2 kilograms, nevertheless very stable and suitable for patients weighing up to 200 kilograms. It stands firmly on four leveling bases that guarantee stability, even when small children are weighed while held by an adult. The mother/child-function ascertains the tare of the weight with just the touch of a button.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: mother/child-function, tip-on automatic switch-on, automatic switch-off
- Optional: stadiometer seca 217 combined with adapter element seca 437, backpack seca 409 or carrying case seca 414 (for combination with stadiometer and adapter element) and seca 415



Tip-on function for weighing without turning on the scales.



new

seca **878 dr**

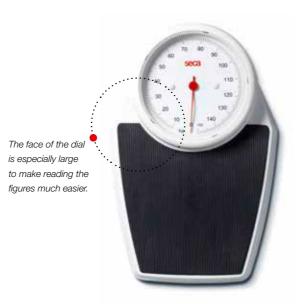
Doctor's scale with customizable label (III)

The design and the name speak a common language. The seca 878 dr is the new flat scale standard for doctors in medical practices. Your advantages include the foot-operated on/off switch and the user-friendly dual LCD display that can be read simultaneously by doctor and patient. Weighing children is simplified by activation of the mother/child-function. The specially developed doctor's scale, which is subject to very strict quality requirements in its manufacture, reliably delivers accurate data. With top quality and medical precision combined in a compact, modern design, the seca 878 dr is perfectly aligned to the needs of today's medical practices.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: mother/child-function, HOLD, automatic switch-off
- Battery-operated or using power adapter
- Optional: customizable label seca 478 at www.seca.com/doctorscale



The two buttons on the front side of the scale can be easily operated by foot.



seca **761**

Mechanical personal scale (III)

The precise design classic has a large clear and well-defined dial. With a large, low-level, non-slip platform and scratch resistant finish it is easy for the patient to step on and weigh.

- Capacity: 150 kg
- Graduation: 1 kg
- Functions: reset-to-zero function



The rugged metal housing withstands years of use under the hardest conditions imaginable.



Accessories

seca 415

Carrying case

This practical carrying case can be used to safely transport the flat scales seca 878 and seca 877.





Height measuring systems

When the quality is right, so are the measurements.

easuring rods and circumference measuring tapes are relatively simple devices in routine medical work – they still have to fulfill challenging clinical requirements. That's why seca produces such items as non-abrasive measurement scales and parts made of distortion-resistant anodized aluminum. For quality you can feel – in devices that transmit your data at the touch of a button into the seca 360° wireless network and in headpieces that always glide smoothly into position and so guarantee consistently precise measurements.

Wireless stadiometer – for use anywhere with display on the headpiece

If you are looking for a wireless solution for taking height measurements, you cannot go wrong with the free-standing digital stadiometer seca 274. Its individual parts of high-quality aluminum can be easily assembled and tightly screwed together and its measuring range from 30 cm to 220 cm can be used for small children to adults. Additional benefits include the stable glass platform, the white backlit display on the headpiece and wireless data transmission. Data can be sent to a seca 360° wireless printer, a PC or a wireless scale that can calculate the BMI from height and weight measurements.

- Measuring range: 30-220 cm
- Graduation: 1 mm
- Functions: HOLD, user-defined zero setting, automatic switch-off, SEND/PRINT

System compatible with products of the seca 360° wireless system.

A wireless stadiometer that can send its measurements to a PC? There is such a thing – from seca of course: the digital stadiometer seca 274 (free-standing) and seca 264 (for wall mounting). Both transmit the measured height with the help of the newest seca 360° wireless technology to the PC, where they are analyzed by the PC software seca analytics 115. From there they can also be transmitted to an Electronic Medical Record (EMR) system.



With the patient's head precisely positioned, the seca Frankfurt Line guarantees exact measurements



The stable glass platform of the seca 274 with integrated heel positioner

guarantees precise

measurement results

and a secure foothold.

The leveling feet allow firm footing, even on uneven surfaces.

seca **264**

Wireless stadiometer for permanent use, with display on the headpiece

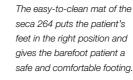
The goal of accomplishing more in fewer steps is as important in medicine as in other fields. The stadiometer seca 264 helps make that possible. For example, the heel positioner and the seca Frankfurt Line on the headpiece ensure that the patient is in the right position and thereby contribute to obtaining accurate measurements. Height measurements can be read with a quick glance at the white backlit display on the headpiece. Wireless data transmission is made to a seca 360° wireless printer, a PC or a wireless scale.

- Measuring range: 30–220 cm
- Graduation: 1 mm
- Functions: HOLD, user-defined zero setting, automatic switch-off, SEND/PRINT

System compatible with products of the seca 360° wireless system.



The white backlit display on the headpiece is very easy to read.





seca | service

For seca 274 and seca 264:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

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Stable stadiometer for mobile height measurement

The mobile stadiometer seca 217 boasts unmatched stability, a cleverly designed assembly system and particularly high-quality materials. All this lends the stadiometer an exceptionally high degree of stability – almost the same as a permanent installation. In addition, the adjustable spacer ensures a secure hold without any fittings. Suitable for medical practices and hospitals, the stadiometer is also just right for mobile use, such as examinations of children at school or patients at home. When disassembled, the stadiometer is easy to carry anywhere.

- Measuring range: 20-205 cm
- Graduation: 1 mm
- Optional: adapter element seca 437 (for combination with flat scale seca 899, seca 878 or seca 877), backpack seca 409, carrying case seca 414 or seca 412



Portable stadiometer

At only 2.4 kg, the seca 213 mobile stadiometer is especially suitable for use in the field but also ideal for doctors' practices and pediatric hospitals. The measuring rod can be dismantled into several pieces and set up easily and quickly. The spacer keeps the rod straight and stable without any fittings. As the scale is printed along the side of the measuring rod, it is easy to read off the result while measuring, thus guaranteeing precise results - up to a height of 205 cm.

- Measuring range: 20–205 cm
- · Graduation: 1 mm
- · Version: seca 2131 with intergrated level in headpiece
- Optional: carrying case seca 412



Mechanical telescopic measuring rod with large measuring range

Specially developed for wall mounting, this measuring rod is aligned to work exactly to the millimeter from tip to toe. Its broad measuring slide and heel positioner are professional prerequisites. The telescopic measuring rod ensures that the result can be easily read at eye level even for the tallest patient. When not in use, the measuring slide can be folded down for safety.

- Measuring range: 6–230 cm
- Graduation: 1 mm



The spacer provides extra stability and ensures precise measurement results.



The robust base plate guarantees a sturdy stance.



The seca 437 adapter element connects the stadiometer to a flat scale.



The integrated handle and securely locking parts make the stadiometer easy to carry.



The integrated level in the headpiece of the seca 2131 guarantees the stadiometer stands correctly in any location.



The foot positioner ensures exact positioning and precise measurements.

Mechanical measuring rod for children and adults

The seca 216 has a variable scale with a range of 3.5 to 230 centimeters that is inserted into a 138 cm frame. The plastic frame is simply mounted on the wall at the desired height. As the user can choose the range shown in the frame, the seca 216 is suitable for measuring children or adults. The results are clearly displayed in a window on the side of the rod and held in place by the locking screw on the head piece. Suitable for international use, the scale is printed in centimeters on one side of the tape and centimeters and inches on the other.

- Measuring range: max. 138 cm, variable from 3.5–230 cm
- Graduation: 1 mm



Whether for children or adults

- the measuring range can be
adjusted as needed.

The graduation index can be fixed in place with the locking

The wall mounting of the measuring tape with roll mechanism reduces space requirements drastically.

seca **206**

Mechanical measuring tape

The space-saving solution with roll-up mechanism.

Uncomplicated fixing on wall with just one screw.

With the display window in the head piece, it's easy to read the height. The durable tape is made of metal.

- Measuring range: 0-220 cm
- Graduation: 1 mm



This high-quality scale made of metal is intended for longterm use.

A measuring tape with two functions? There is such a thing – from seca of course. The ergonomic measuring tape seca 203 also has a scale that determines the Waist-To-Hip-Ratio (WHR). With a single measuring instrument you can determine body circumference and get diagnostic data about health risks, such as details about the distribution of body fat.

seca **203**

Ergonomic circumference measuring tape with extra Waist-To-Hip-Ratio calculator (WHR)

The measuring tape seca 203 for determination of body circumference has a highquality scale of metal used to obtain the Waist-To-Hip-Ratio (WHR). The WHR is an indirect method of determining the amount of abdominal fat tissue. The ratio allows conclusions to be drawn about the distribution of fat stores and thus contributes to a diagnosis.

• Measuring range: 0-205 cm

• Graduation: 1 mm

Function: WHR calculator



seca **201**

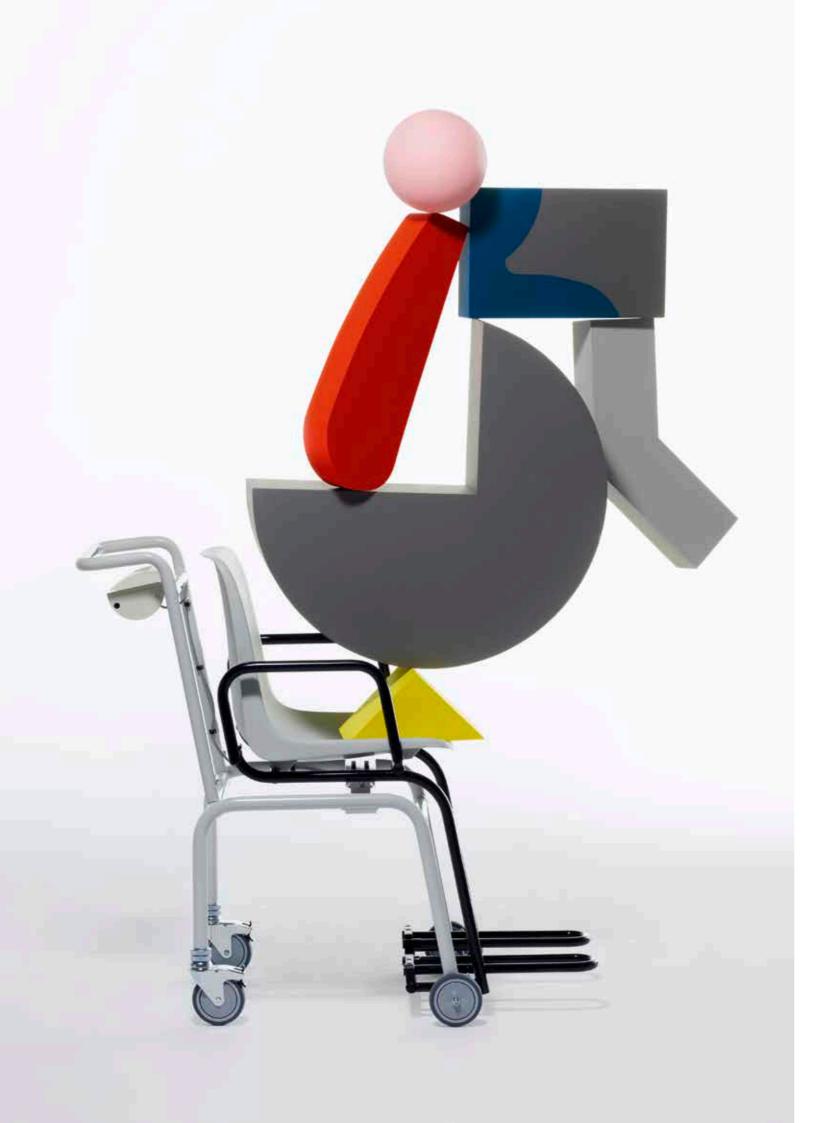
Ergonomic circumference measuring tape

Today's circumference tapes also have to satisfy high medical demands. That is why seca has developed the seca 201 which can measure girth with millimeter precision. The high-quality mechanics guarantee that the 205 cm long tape unwinds easily and locks in place precisely. The housing sits comfortably and securely in the user's hand and is tough enough to withstand accidental dropping.

- Measuring range: 0-205 cm
- Graduation: 1 mm



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Multifunctional and wheelchair scales

Effortless for the patient, easy for medical staff.

Weighing can be a complicated process, but it doesn't have to be. The multifunctional and wheelchair scales by seca are easy to use whether the patient is sitting in a wheelchair or standing. Four load cells ensure that a patient can be measured regardless of position – standing without support or holding onto the handrail, in the middle of the scales or at the edge. There is no need for careful positioning of the patient or adjustments to the scales. Emphasis is on convenient operation with wireless transmission of data to a PC or a seca 360° wireless printer.

Wireless multifunctional handrail scale (11)

Equipped with an extremely low-level, easy-access platform, a stable handrail, and high weight-bearing capacity, this multifunctional scale ensures safe and comfortable weighing of heavy patients. The integrated handrail provides the patient with support throughout the weighing process – or sat on a chair placed on the generous platform. The pre-TARE function with three memory cells automatically deducts a stored weight (such as a chair) to determine net weight. The seca 645 is also equipped with seca 360° wireless technology which can be used to transmit the measurement results wirelessly to a seca wireless printer or the seca software on a PC. Moreover, the seca 645 is made mobile by two rubber wheels and a power supply provided by rechargeable batteries or power adapter. When the scale is connected to a printer, the time of weighing and the patient's weight are automatically recorded and printed by the time module.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: measuring rod seca 223





seca | service

For seca 645 and seca 685:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support



Accessories

seca **223**

Telescopic measuring rod for handrail scales

This easy-to-fit measuring rod (fittings included) converts the handrail scale seca 645 into a real all-round talent. The determined height can be entered directly into the control unit of the seca 645 so that all relevant data is captured and used to determine the BMI.

- Measuring range: 6–230 cm
- Graduation: 1 mm



The optional measuring rod permits measuring and weighing in one step.



The display can be rotated in every direction.



Because the handrail is part of the weight sensitive area, measurements are absolutely sure even if the patient supports himself on it.



Wireless multifunctional scale (III)

The patient can be safely and accurately weighed while standing, seated or in a wheelchair. No conversion is required. The stable handrail supports the standing patient, the integrated fold-down seat provides comfort for the seated patient, and the large platform (80 x 84 cm) accommodates a patient in a wheelchair. The weight of the wheelchair or walker is simply deducted with use of the pre-TARE function. Special attention has been given to making the scales easy to access and safe, with a stop barrier provided for the front wheels of the wheelchair. Furthermore, the seca 685 is equipped with the new seca 360° wireless technology, which wirelessly transmits all measurements to a seca wireless printer or to seca software on a PC. Additional details: easy-to-read swiveling display can be turned toward patient or caregiver, the practical HOLD function shows the weighing result after the patient has left the platform, the damping function ensures precise results, the non-slip rubber coating and handrail guarantee a firm foothold and integrated transport castors make the scale mobile.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, SEND/PRINT
- Version: seca 685 r with integrated RS232 interface
- Optional: PC interface cable seca 451 (only for seca 685r)

System compatible with products of the seca 360° wireless system.



seca **451**

PC interface cable for the multifunctional and wheelchair scales seca 685 r and seca 677 r

The optionally available PC interface cable seca 451 (female) guarantees a reliable transmission of height and weight between a seca scale and the PC.



Patient can stand or sit when being weighed.

The rotating display can be oriented towards the patient or medical personnel.



Wireless wheelchair scale with handrail and transport castors (III)

Stable, functional and mobile: thanks to its large platform and sturdy handrail, the seca 677 is extremely versatile. Patients can be weighed while sitting in a wheelchair or on a chair. The handrail provides valuable support for people who are frail or can walk only with great difficulty. Its high load capacity makes the seca 677 ideal for weighing very heavy patients. After use the scale can be folded together to save space. The sturdy locking device between rail and platform ensures that the seca 677 stands safely even when folded. The handrail also serves as handle when the scale is folded, allowing the scale to be moved around or stowed away effortlessly and quickly on its transport castors. Weighing is simple and user-friendly with the clearly designed, operable display at hip level, additional functions of TARE, Auto-HOLD, BMI and the SEND/PRINT key to transmit measurements wirelessly to a seca wireless printer or the PC.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, SEND/PRINT
- Version: seca 677 r with integrated RS232 interface
- Optional: PC interface cable seca 451 (only for seca 677 r)

System compatible with products of the seca 360° wireless system.

seca I service

For seca 677 and seca 665:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

A handrail for support that doesn't falsify the measurement? There is such a thing - from seca of course. The handrail on our transportable wireless wheelchair scale seca 677 gives the patient a feeling of security and, thanks to its special technology, delivers accurate measurements even when the patient leans on or holds onto the handrail.



The scale can be folded for easy transport.



seca **665**

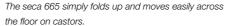
Wireless electronic wheelchair scale (III)

With its high capacity of 300 kg, this scale makes it easy to weigh even heavy patients. Easy access is assured by its extremely low platform. The secure side rails give additional safety. An integrated pre-TARE function determines in seconds the net weight of the patient by utilizing internal weight memory. All the data can be transmitted wirelessly to a printer or PC immediately after weighing. The swiveling LCD with large letters

System compatible with products of the is easy to read both for the patient and for the caregiver. The seca 665 can be folded up in no time and can be transported anywhere, thanks to its roller castors.

- · Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- seca 360° wireless system.







The platform's side rails keep a wheelchair safe and secure.



The especially large platform of the seca 657 makes it possible to weigh patients on all commonly used stretchers. Patients can also be weighed while sitting in wheelchairs or on a chair. A unique characteristic of the seca 657 is the memory function. This practical feature helps to lighten the workload especially in the emergency unit: first the total weight of the patient and stretcher or wheelchair is determined. The stretcher or wheelchair is then weighed separately and the net weight of the patient appears automatically on the display. A cable remote display with easy-to-read LCD figures is included in delivery. This display is operated intuitively and is equipped with many additional functions. With the pre-TARE function, the extra weight of a stretcher or wheelchair can be deducted directly from the total weight during the weighing process. With the BMI

function, the nutritional condition of the patient can be determined. Thanks to its robust design and capacity of 300 kg,

the seca 657 can weigh even overweight persons with no problem at all. With the practical castors and integrated handles, the seca 657 is also transportable for use in various locations. And with the seca 360° wireless technology, the measurements can be sent to a seca wireless printer or the PC at the push of a button.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, RESET, SEND/PRINT
- Optional: stand for cable remote displays seca 472
- System compatible with products of the seca 360° wireless system.

seca | service

For seca 657:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support



The free-standing display guarantees comfortable read-out of measurements.



A ramp for easy roll-on of wheelchairs is included in delivery.

seca **675**

Electronic platform scale @

This electrically-operated, generously-sized wheelchair/platform scale is multifunctional. It weighs patients in care, especially heavy patients, persons in wheelchairs and seated patients with circulatory trouble, even during dialysis. The flexible cable remote display can be placed anywhere (e.g. on a desk or table) for convenient read-out and operation of the controls. A wall mounting is also provided. Transport castors and a handle make the seca 675 mobile.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, BMI, weighing range switch-over, damping
- Optional: stand for cable remote displays seca 472, second ramp seca 470



Accessories

seca 472

Stand for cable remote displays of seca scales

The seca 472 stand is the stable solution for cable remote displays of the seca 635, seca 657 and seca 675 scales. The sturdy construction with non-slip steel feet can be positioned everywhere quickly and securely. The display element can easily be attached to the stand by means of a stable bracket.



Accessories

seca 470

Second ramp for seca 675

Optional accessory: this ramp for platform scale seca 675 makes it even easier to get onto the scale with a wheelchair from both sides.



Thanks to the ramp, a wheelchair rolls easily and comfortably onto the platform.

Chair scales by seca

Competence takes the chair.

ow can you gently and carefully weigh bedridden patients or people who are unsteady on their feet? The best choice is a seca chair scale, which you can take directly to the patient. That saves you – and nursing staff – from unnecessary steps. And with the scale's wireless function, transmission of data to a printer or a PC is quick and easy.



For seca 959:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- · Remote or on-site software support

A chair scale that weighs with a graduation of 50 grams? There is such a thing - from seca, of course. The seca 959 is the first and only wireless chair scale on the market that weighs with a graduation of 50 grams. The advantage of this fine graduation is particularly important in pediatrics. Now children who cannot stand on their own can be weighed precisely and accurately while seated. Furthermore, medical personnel can detect the slightest weight changes in serial measurements with the seca 959.

seca **959**

Wireless chair scale to weigh seated patients (III)

Care and comfort were kept in mind when designing the stable model with a circular steel tube frame. The comfortable seat provides a safe position while the swiveling armrests and adjustable footrests make the chair scale more user-friendly. The locking rear wheels ensure that it is safe to sit down and stand up at all times. The positioning of the large LCD display unit behind the chair permits intuitive operation of functions TARE, HOLD and BMI. At the press of a button, the seca 360° wireless technology transmits measurements to a seca wireless printer or a PC. This mobile chair scale, which can be operated by a rechargeable battery or electricity, provides enormous help in rehab, orthopedics, dialysis and nursing homes. Its fine graduation of 50 grams is particularly valuable in pediatrics,

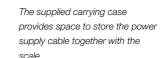


With its exceptionally high capacity of up to 300 kg, the BMI function and options to use mains or battery power, the chair scale seca 959 is ideal for use in any situation.



The seca 956 is running on batteries instead of mains power, and offers a capacity of 200 kg.





The armrests can also be folded away to allow patients better access from the side



seca **956**

Chair scale for weighing while seated (III)

With a capacity of 200 kg and a graduation of 100 grams, the seca 956 fulfills all basic medical standards. Added to that are the typical seca advantages such as fold-up armrests and footrests, secure wheel brakes, an ergonomically shaped seat and smooth rollers, which, together with the ergonomically shaped handle, make it very easy to push the chair scale. Of course the seca 956 is also equipped with the important TARE function which allows every newly added weight to be ascertained separately and the HOLD function which lets medical personnel take care of the patient first and read out the results later.

· Capacity: 200 kg Graduation: 100 g

• Functions: TARE, HOLD, automatic switch-off



allowing small children who cannot yet stand on their own to be

weighed while seated. The practical pouch seca 471 attached

Graduation: 50 g < 150 kg > 100 g < 250 kg > 200 g

BMI, Auto-CLEAR, auto weighing range switch-over,

• Functions: TARE, pre-TARE, HOLD, Auto-HOLD,

damping, automatic switch-off, SEND/PRINT

System compatible with products of the

seca 360° wireless system.

to the scale frame stores the power adapter.

Capacity: 300 kg

The large footrests can be folded completely out of the way so that the patient can safely and



The footrests can be folded away to make it easier for patients to stand up and sit down.

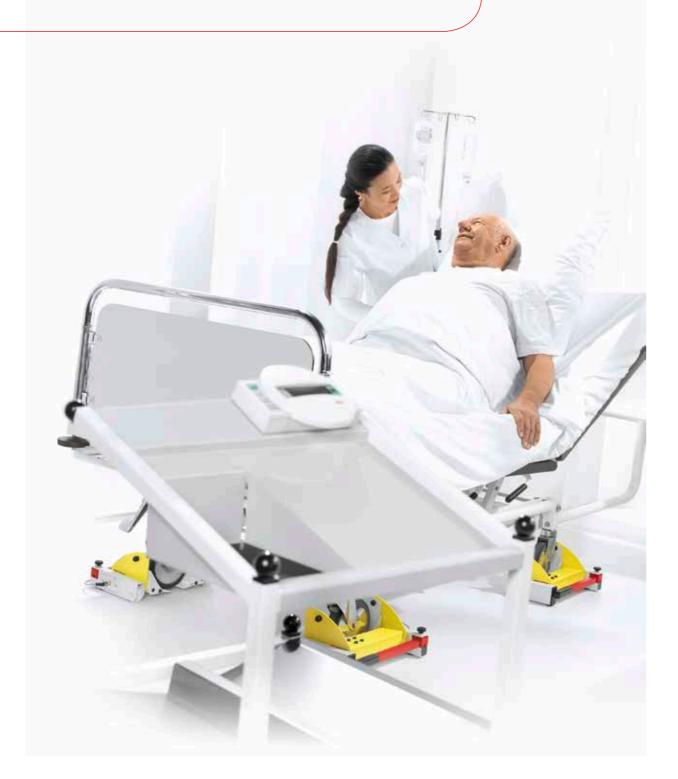
comfortably take a seat.

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Every gram counts

when lying in bed.

ur bed and dialysis scales have been carefully tested in the past by specialists and intensive care consultants in dialysis and burn units. They are now also being used to an increasing extent in nursing homes, since every gram is important in the case of immobile patients, precision is what counts. The bed and dialysis scales from seca with their alarm function can assist critical monitoring in the case of clinical procedures involving the loss of fluid or special fluid turnover, or simply in areas where patients can be weighed only in bed.





seca **985**

Electronic bed and dialysis scale with equipment trolley (III)

Always in use: the seca 985 facilitates the easy, gentle and precise weighing of bedridden patients and is an indispensable aid in dialysis and intensive care. Integrated lifts enable four load cells to be placed easily and effortlessly under the castors of an empty bed and the scale to be switched on. The weight of the empty bed is stored in the scale until the next time the scale is switched off. The previously determined weight of the bed (must be 250 kg or less) is deducted using the TARE function and the patient's precise weight is determined. In order to obtain the patient's measurements even if the power goes out, the bed scale is also equipped with a rechargeable battery. When not in use, the four bed lifts can be stored on the equipment trolley.



Max. patient weight: 250 kg

Maximum bed weight: 250 kg

• Graduation: 100 g < 200 kg > 200 g

Functions: TARE, pre-TARE,
 HOLD, BMI, limit value, damping

• Optional: RS232 interface seca 460





The patented lift mechanism permits placement of the load cells without any effort.

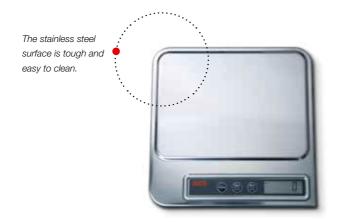
Ö

Specialized scales by seca

Small size, big help.

s a specialist for medical measuring and weighing, seca naturally offers solutions for special medical applications. For instance, the splash-protected organ and diaper scale and the extremely precise portion and diet scale for clinical nutritionists.





seca **856**

Electronic organ and diaper scale with stainless steel cover

The organ scale seca 856 has been designed to meet the specific requirements in its area of application. The raised display is protected from soiling by fluids and the specially sealed battery compartment keeps moisture away from the electronic parts. This scale also fulfills tough hygienic standards with a sealed stainless steel surface that's easy to clean. With the aid of the pre-TARE function, the additional weight of containers can simply be deducted for precise determination of net weight. The fine one-gram graduation ensures highly precise results.

- · Capacity: 5 kg
- Graduation: 1 g < 3 kg > 2 g
- Functions: TARE, pre-TARE, HOLD, automatic switch-off



The smooth food-safe surface allows easy cleaning of the bowl.

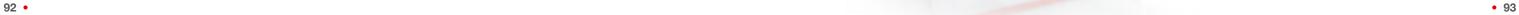
seca **852**

Digital portion and diet scale

Operation of these scales with the TARE function is wonderfully simple. It can be repeatedly reset to zero, regardless of how many ingredients are already in the bowl. The scales and bowl are so perfectly matched that the scales simply slip into the bowl for storage.

- Capacity: 3 kg
- Graduation: 1 g
- · Functions: TARE, automatic switch-off





seca printers don't just print -

they also assist with analysis.

easurements received from the seca 360° wireless products can be printed out by seca wireless thermal printers. The printers also assist with the analysis and interpretation of the data by presenting BMI in graphic displays and comparing growth percentiles of children with the relevant statistical norms.



seca 360° wireless printer advanced for reception, analysis and printing of measurements on thermal paper or labels

With the wireless printer advanced seca 466 with integrated automatic cutting tool, measurements transmitted by the seca 360° wireless products can be printed quickly onto thermal paper or labels, which are then automatically separated. It also handles the automatic interpretation and analysis of results. The printer formats a graph of weight, height and BMI and compares the findings to standard ranges. The required reference values, which are on a separate memory card, can be configured easily with the seca print designer software. Other data such as the date and time format, language and the hospital or doctor's practice logo are processed in the same way.

- Print speed: 80 mm/sec
- Functions: print-out of height, weight, BMI, resting or total energy expenditure or percentiles for children, integrated automatic cutter
- Optional: 5 or 50 rolls of thermal paper seca 485,
 1 or 24 rolls of labels seca 486
- Included with printer: SD smart card, power adapter,
 SD card reader, 1 roll of thermal paper, 1 roll of labels

System compatible with products of the seca 360° wireless system.





Height, weight, BMI, resting energy expenditure, total energy expenditure or percentiles for children – in the layout file you can choose the information you want.



seca **465**

seca 360° wireless printer for analysis and printing of transmitted measurements on thermal paper

The seca 465 wireless printer is exactly the right partner for wireless measuring rods and scales by seca. Via its wireless receiver and pre-configured SD smart card, the printer receives the measurements transmitted by seca devices and analyzes the data. The printer compares height and weight to reference values as defined by WHO, CDC and Kromeyer-Hauschild et al., and ascertains percentiles for children. Resting energy expenditure and total energy expenditure based on parameters of gender, age and PAL (Physical Activity Level) are also calculated. As needed, Body Mass Index (BMI) or Body Fat Rate (BFR) can be analyzed and printed.

- Print speed: 80 mm/sec
- Functions: print-out of height, weight, BMI, resting or total energy expenditure or percentiles for children
- Optional: 5 or 50 rolls of thermal paper seca 485
- Included with printer: SD smart card, power adapter,
 SD card reader, 1 roll of thermal paper







The seca print designer software lets you integrate the logo used by the hospital/practice in the print-out. Or you can specify in which language the information should be printed.

94 • • 95

Software

Analyze and transmit. This solution gives you more out of measuring.

Whith the software application seca emr flash 101, the seca 360° wireless products can transmit their results directly to any EMR system. The software is 100% compatible with all the EMR systems currently on the market. The software seca analytics 115 goes a step further by analyzing and interpreting the weight and height data and the measurements from the seca mBCA using 7 analysis modules. This process supports the doctor with early detection of disease, documentation tasks, and therapy success, as well as patient consultation.



seca analytics 115

Medical PC software for diagnostic assistance

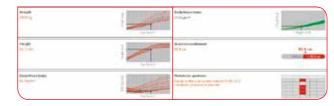
With the network-capable software seca analytics 115, optionally available with three or six workstation licenses, doctors can process the measurements from their seca 360° wireless products, including the seca mBCA, in seven modules on the PC and thereby significantly improve the quality of the medical examination. Assistance is provided not only by the three integrated modules "Energy", "Cardiometabolic Risk" and "Growth/Development", but also the four additional seca mBCA modules "Fluid", "Function/Rehabilitation", "Health risk" and "Raw impedance data". In the total of seven modules, medical inquiries about the patient's general health status and nutritional condition are answered, measurements compared to standard values and findings displayed in a therapy planner. The entire analysis can be printed on a conventional printer specially configured by the user. This type of diagnostic assistance adds a completely new dimension to medical advice and gives doctors' offices and hospitals a distinct competitive advantage.

System requirements:

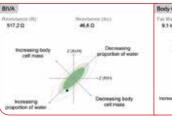
- Supported operating systems: Windows® 10, Windows® 8.1, Windows® 8, Windows® Server 2012 R2, Windows® Server 2012, Windows® 7 (SP1), Windows® Vista (SP1, SP2), Windows® Server 2008 R2 and Windows® Server 2008
- Processor: 1.2 GHz or higher
- Hard Disk Space: minimum 1 GB
- Memory: minimum 512 MB RAM
- Additional HW: DVD drive
- Ports: for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232)
- Display: 1024 x 768, High Colour (16-bit), 32-bit (recommended)

System compatible with products of the seca 360° wireless system.

1 single location license free with every seca mBCA 515, seca mBCA 525 and seca mVSA 535

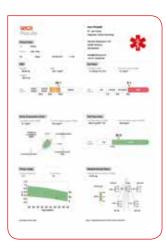


For an exact assessment of health status and nutritional condition of children, height, weight and BMI are compared to percentiles. BMI, waist circumference and other laboratory data are used to assess the risk of coronary heart disease.



The proportion of fluid in the total body weight is important for prevention, diagnosis and therapy, e.g. for heart failure or kidney disease.

The composition and assessment of the body mass are important for the diagnosis and treatment of weight-related illnesses.



All examination results for each patient can be complied into a PDF of one or more pages. The findings can be ideally prepared for a personal consultation.

- **seca** | service

For seca analytics 115:

- Remote or on-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

96 • • 97



seca emr flash 101

Software to connect seca 360° wireless products to Electronic Medical Record (EMR) systems

Simple and efficient – medical science can take a giant step forward. The intuitive software seca emr flash 101, which transmits measurements directly to an EMR system, is now available as a download at www.seca.com. In just seconds your measurement data from seca 360° wireless measuring devices and scales is assigned to the right patient ID.

System requirements:

- Supported operating systems: Windows® 10, Windows® 8.1, Windows® 8, Windows® 7 (SP1) and Windows® Vista (SP1, SP2)
- Ports: for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232)
- System compatible with products of the seca 360° wireless system.



seca | service

For seca emr flash 101:

- Remote or on-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

eca added valu

Is there a software program that can communicate with all EMR systems? Of course – from seca.

No other manufacturer of measuring systems and scales offers direct wireless data transmission to an EMR system. But with the software application seca emr flash 101, you can transmit your measurements from seca 360° wireless products directly into an EMR system. The technological standard of the EMR system doesn't matter at all.

Accessories

seca **456**

seca 360° wireless USB adapter for data reception on PC

The USB adapter seca 456 enables any PC to receive wireless data from seca measuring systems and scales. This eliminates annoying cable connections in the examination rooms and, with the PC software seca analytics 115, allows measurements to be stored in the seca database or fed into an EMR system, and provides other parameters in a PDF file (EMR-integrated). The labor-intensive process of documenting examination findings is turned into a speedy and paperless matter.

System requirements:

- Supported operating systems: Windows® 10, Windows® 8.1, Windows® 8, Windows® Server 2012 R2, Windows® Server 2012, Windows® 7 (SP1), Windows® Vista (SP1, SP2), Windows® Server 2008 R2 and Windows® Server 2008
- Version: seca 456 wa for wireless data transmission to the Welch Allyn Connex® Vital Signs Monitor (CVSM) or Integrated Wall System

System compatible with products of the seca 360° wireless system.





The wireless reception of measurements on the PC is the decisive step toward Electronic Medical Records.



seca mBCA



Page 08-15

Dimensions (WxHxD)

Capacity

Weight

Display

Graduation

Power supply

Approval class

Medical Device Class
Interfaces

Compatible printers

Measurement method

Measurement frequencies

Measurement seaments

Measurement current

Measurement time



seca mBCA 515

€ 0123 **€** 0102



seca mBCA 525

Medical Body Composition Analyzer for determining

body composition while lying down.

Medical Body Composition Analyzer for determining
body composition while standing.

	Page 08	Page 12
	976 x 1,251 x 828 mm	252 x 262 x 230 mm
	300 kg	
	50 g < 150 kg > 100 g	
	36 kg	3 kg
	8.4" Touch-screen display, can be rotated 360°	7" Touch-screen display
	power adapter	power adapter, rechargeable battery
	(III)	
	lla	lla
	Touch-screen display USB 2.0 weighing platform Ethernet (10/100 Base-T)	Wi-Fi, Ethernet, USB 2.0, seca 360° wireless technology
	laser printer and inkjet printer via PC software seca analytics 115	laser printer and inkjet printer via PC software seca analytics 115
е		
	8-point Bioelectrical Impedance Analysis	8-point Bioelectrical Impedance Analysis
3	1; 1,5; 2; 3; 5; 7,5; 10; 15; 20; 30; 50; 75; 100; 150; 200; 300; 500; 750; 1.000 kHz	1; 2; 5; 10; 50; 100; 200; 500 kHz
	right arm, left arm, right leg, left leg, right half of body, left half of body, torso	right arm, left arm, right leg, left leg, right half of body, left half of body, torso

Capacity

Fine graduation

Accessories

PC software seca analytics 115 (with one workstation license included) combined with seca 360° wireless measuring systems

100 µA

17 seconds

Weighing range 1 = 150 kg Weighing range 2 = 300 kg

Weighing range 1 = 50 g Weighing range 2 = 100 g

PC software seca analytics 115 (with one workstation license included) combined with seca 360° wireless measuring systems and scales

100 μΑ

30 seconds

Accessories for seca mBCA



seca mVSA

Page 18-23

Dimensions (WxHxD)

Medical device class

Compatible printers

Measurement method

Measurement frequencies

Measurement seaments

Measurement current

Measurement time

Measuring procedure

Measurement range

Measurement accuracy

Measurement certainty

Measurement method

Measurement precision (SpO₂)

Measurement accuracy

Measurement methods

Measurement range

Response time

Probe covers

Measurement range

Measurement range

Measurement time

Pulse rate

(SpO₂)

Weight

Display type

Interfaces

Power supply



seca mVSA 535

Page 18

252 x 262 x 278 mm

In-ear thermometer 3.7 kg

7" touchscreen display

Built-in power adapter, internal rechargeable lithium-ion battery

8-point Bioelectrical Impedance Analysis 1; 2; 5; 10; 50; 100; 200; 500 kHz

right arm, left arm, right leg, left leg, right half of body, left half of body, torso

30 seconds

oscillometric

pSYS: 25-280 mmHg; pDIA: 10-220 mmHg; pMAP: 15-260 mmHg

Excess pressure limit 300 mmHg; automatic pressure release at 330 mmHg

Normal: 15-20 sec / max. 90 sec (adults)

Range 30-240 BPM; accuracy ± 2 BPM

SpO₂ 0.0 % to 100.0 %

SpO₂ – resting (60 % – 100 %) ± 2 Arms; SpO₂ – in motion (70 % – 100 %) ± 3 Arms

Pulse rate PR (Standard) 30 bpm to 240 bpm; Pulse rate PR (Enhanced) 20 bpm to 300 bpm

PR - resting ∠ 2 bpm; PR - in motion n/a

Inflation measurement:

Genius® 2

Genius 2 operating manual ear

100 uA

Wi-Fi, Ethernet, USB 2.0, seca 360° wireless technology Conventional laser and ink jet printers via the seca analytics 115 PC software

Spot-check-monitor for customized configuration.

Accuracy of deflation measurement:

Filac 3000®

Direct, predictive

99

Software

seca analytics 115

Medical PC software for diagnostic assistance.

mm

Page 16

ai uata	
ons (WxHxD)	137 x 192 x 7
	78 g

System

Weight

Supported operating systems

Processor

Hard Disk Space

Measurement accuracy – mean deviation < 1.7 mmHg Measurement accuracy – mean deviation < 5.6 mmHg Measurement accuracy – standard deviation < 5.6 mmHg Measurement accuracy – standard deviation < 3.48 mmHg Memory

Additional HW

Display

System compatible v

seca 360° wireless

Windows® 10,
Windows® 8.1,
Windows® 8, Windows®
Server 2012 R2,
Windows® Server 2012,
Windows® 7 (SP1),
Windows® Vista
(SP1, SP2), Windows®
Server 2008 R2 and
Windows® Server 2008

1.2 GHz or higher minimum 1 GB

minimum 512 MB RAM

DVD drive

for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232) 1024 x 768,

High Color (16-bit), 32-bit (recommended)

all measuring devices and scales in the seca 360° wireless system

Accessories	
seca 360° wireless	seca 360° wireless system-con

30-43 °C / 86-109 °F

Direct ± 0.1 °C (± 0.2 °F)

Predictive (for 95 % of measurements) ± 0.1 °C (± 0.2 °F)

Direct < 60 sec;

Predictive (oral) < 10 sec;

Predictive (axial/rectal) < 15 sec

490 0015

33-42 °C / 91.4-107.6 °F

Ambient temperature
36-39 °C / 96.8-102.2 °F

33-6°C / 96.8 °F
> 39 °C / 50.8 °F
> 490 0016

seca 360° wireless PC software seca analytics 115 (with one workstation license included), system-compatible with seca 360° wireless measuring systems and scales

Technical data • 101

Accessories for seca mVSA









Reusable finger clip (hard for measuring SpO ₂ in adults.

isable finger clip (hard) measuring SpO_2 in lts.	Reusable finger clip (soft) for measuring SpO ₂ in adults.	Reusable finger clip (soft) for measuring ${\rm SpO}_2$ in children.	
490 0006	490 0007	490 0008	
Page 21	Page 21	Page 21	

Technical data
Application
SpO ₂ measurement rang
SpO ₂ accuracy

SpO₂ low-perfusion accuracy PR accuracy PR low-perfusion accuracy Weight









In-ear thermometer for

the optional expansion of the seca mVSA 535.

490 0014

Page 21













Extension cord for sphyg-	Extension cord for	Rollin

Rolling stand for mobile use of the seca mVSA 535.

seca 475

Page 21

Page 21

Dimensions (WxHxD)	

Sizes Weight

1,785 x 20 x 170 mm

Measuring mat for bioelectrical impedance analysis for the seca mVSA 535.

1.1 kg See the bioelectrical impedance analysis information for the seca mVSA 535

< 0.5 kg 33-42 °C / 91.4-107.6 °F 490 0016

Page 21 S: 20.5 – 28 cm; M: 27 – 35 cm; L: 34 – 43 cm; XL: 42 – 54 cm depending on size

Reusable seca sphyg-

momanometer cuffs available in various sizes (S-XL).

490 000x

1,300 mm

< 0.5 kg

1,200 mm

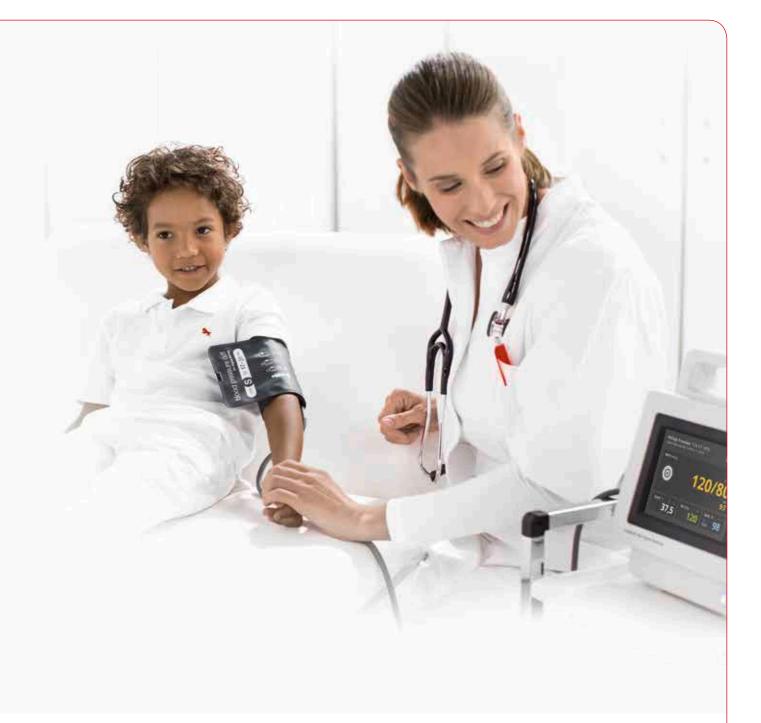
 $< 0.5 \ kg$

 $\mathsf{seca}\,\mathsf{SpO}_{_{2}}\,\mathsf{sensors}.$ momanometer cuffs.

490 0005 490 0012 Page 21 Page 21

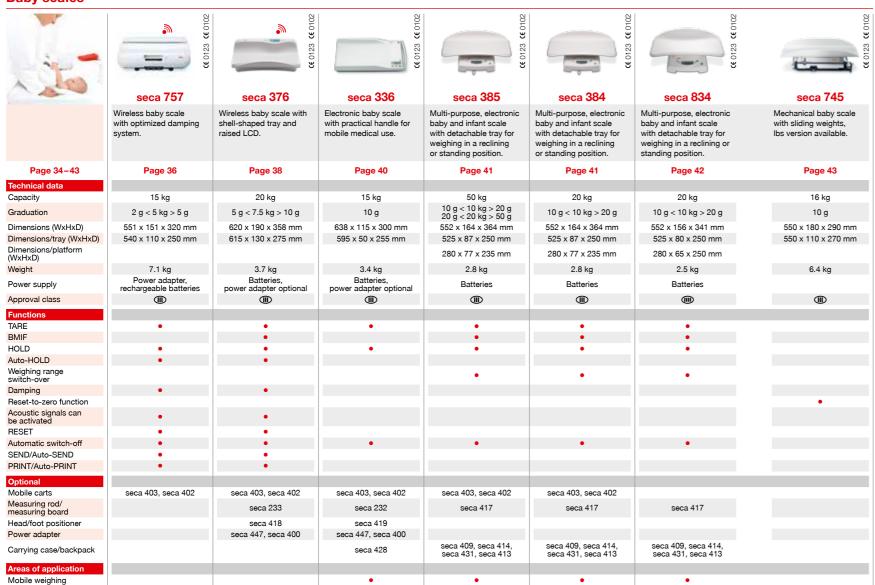
600 x 600 mm (WxD), Height variable of 695-1.185 mm

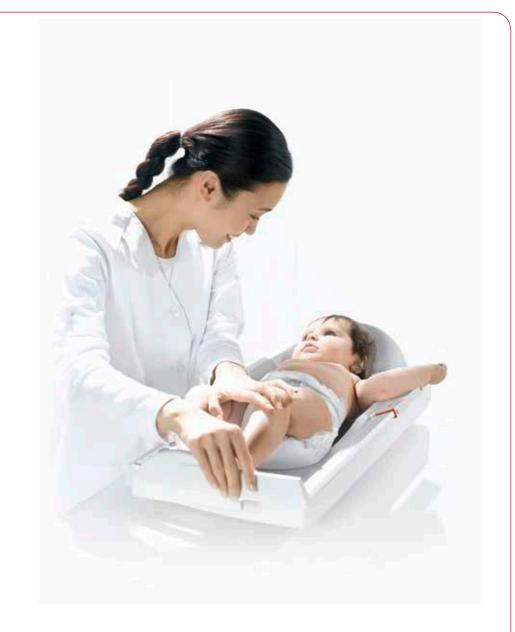
7 kg



102 • Technical data • 103

Baby scales





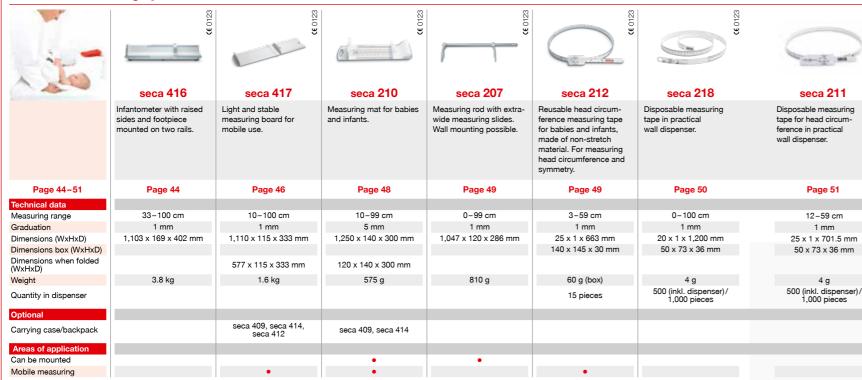
Accessories for baby scales

products of the seca 360° wireless system

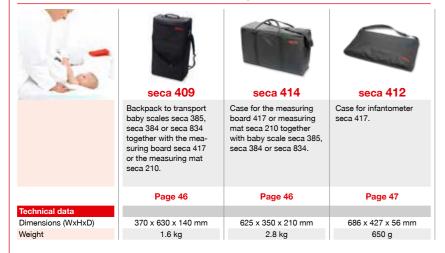


104 • Technical data • **105**

Pediatric measuring systems



Accessories for pediatric measuring systems

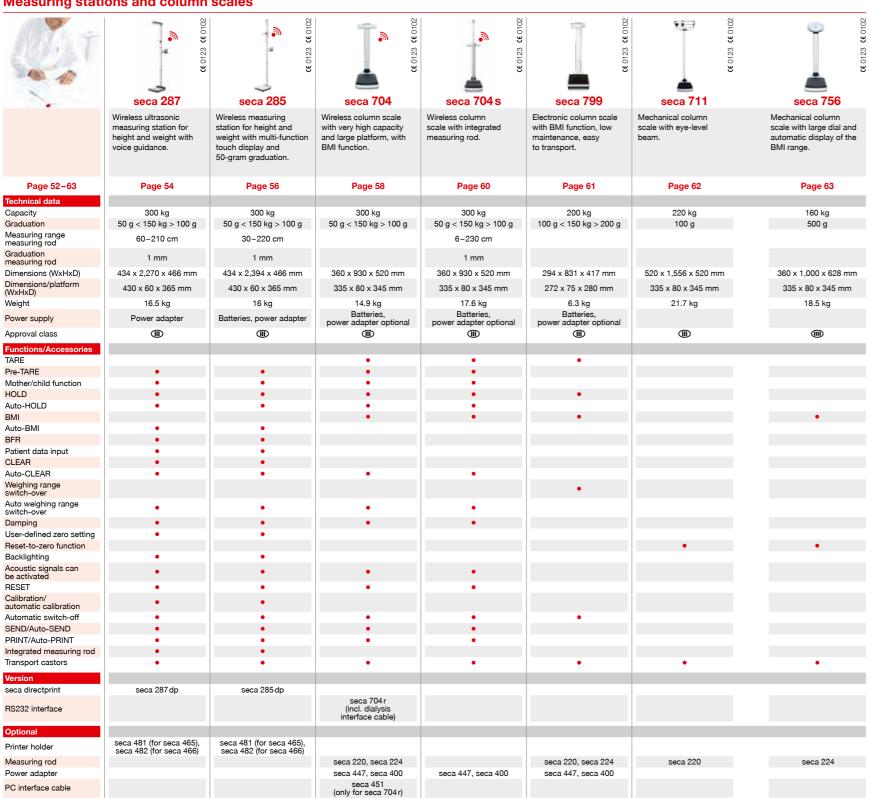




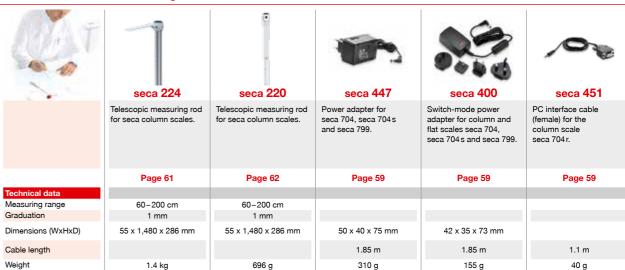
Technical data • 107

Measuring stations and column scales

products of the seca 360° wireless system



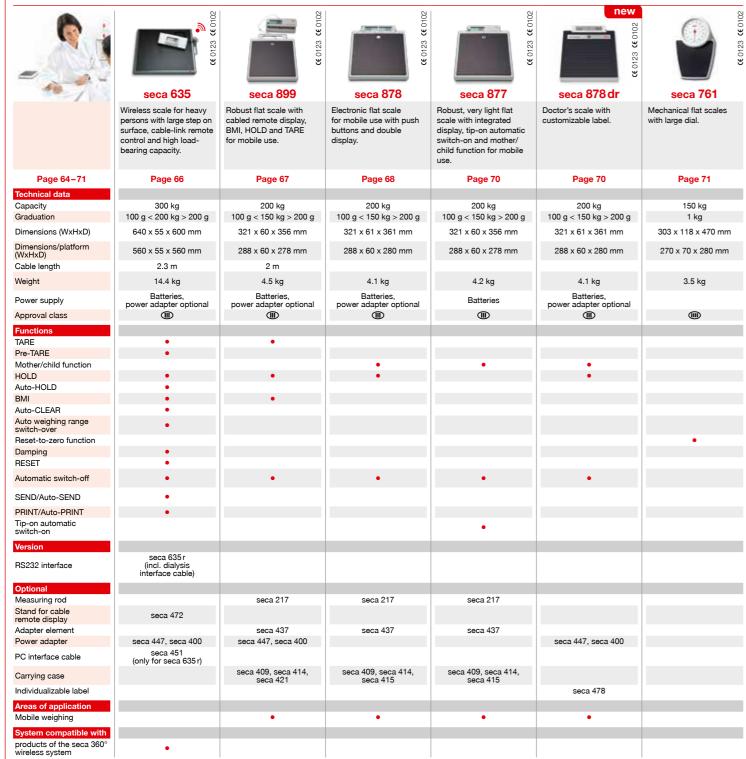
Accessories for measuring stations and column scales

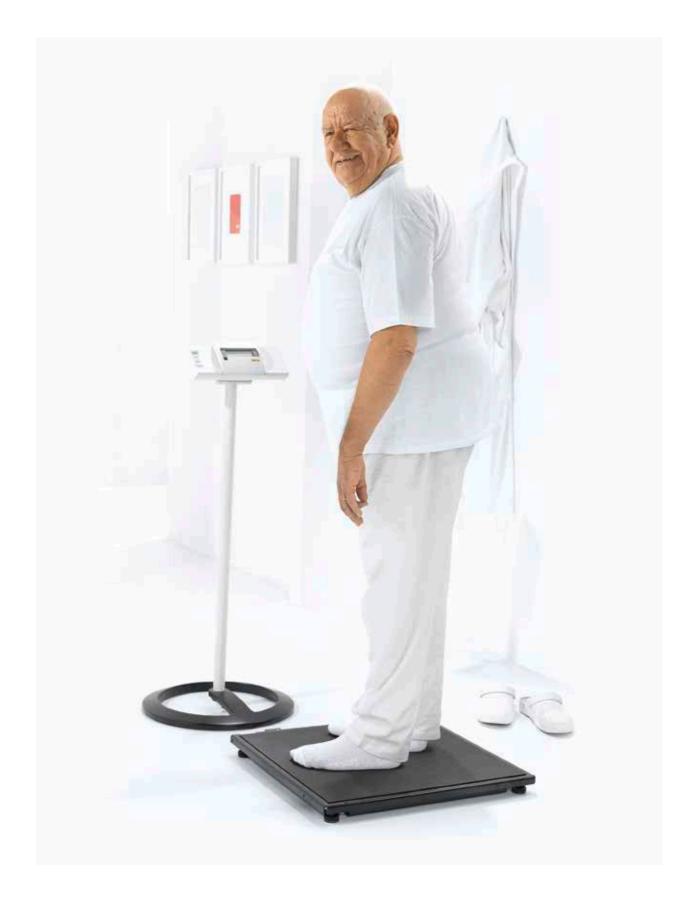




108 • Technical data • 109

Flat scales

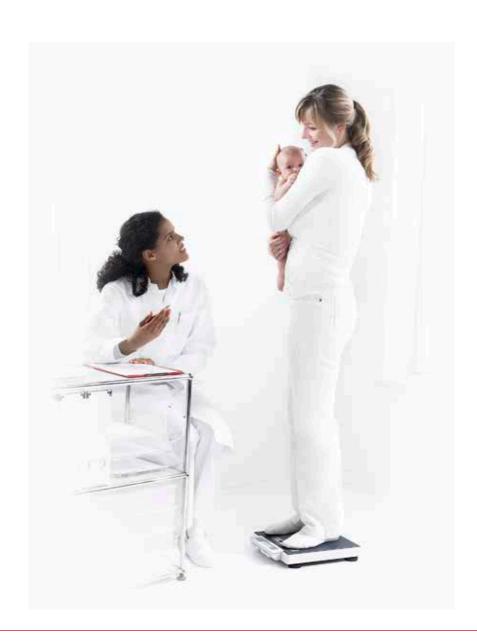




110 • Technical data • 111

Accessories for flat scales

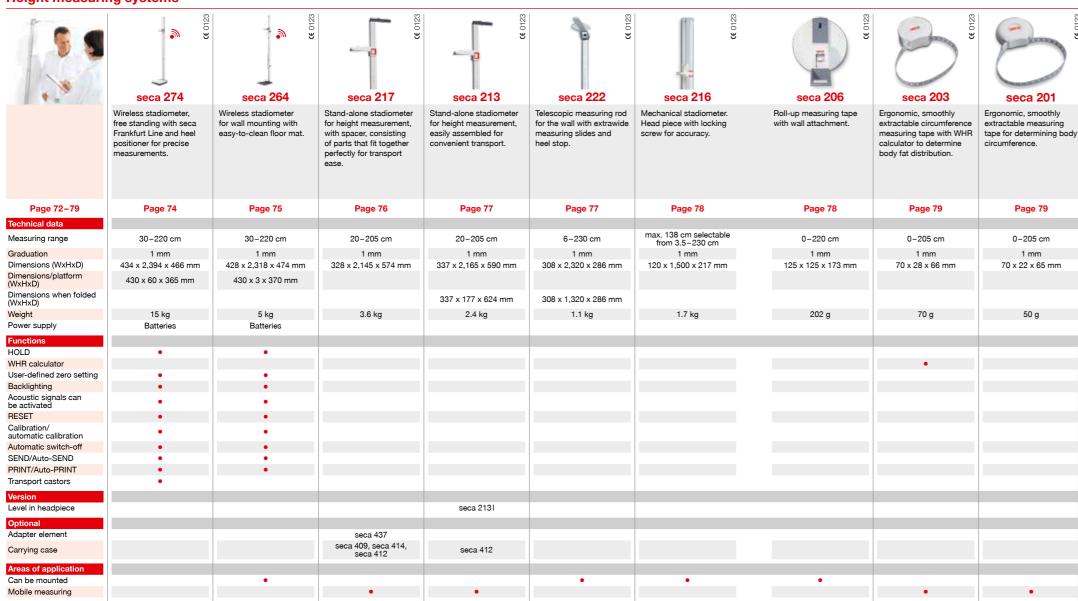






112 • Technical data • 113

Height measuring systems



Accessories for height measuring systems

products of the seca 360° wireless system





Technical data • 115

Multifunctional and wheelchair scales



Graduation

Power supply

Approval class

TARE/pre-TARE

HOLD

BMI

Auto-HOLD

Auto-CLEAR

Damping RESET Automatic switch-off SEND/Auto-SEND PRINT/Auto-PRINT Transport castors Ramp

Auto weighing range switch-over

RS232 interface

Mechanical accessories

products of the seca 360° wireless system

PC interface cable

Dimensions (WxHxD)

Dimensions/platform (WxHxD)













Large wireless standing aid scale for multifunc-	
tional use with fixed	
rail, high capacity, BMI	
function and time module.	
function and time module.	
Page 82	

300 kg

100 g < 200 kg > 200 g

640 x 1,150 x 660 mm

600 x 55 x 600 mm

25.4 kg

Power adapter, rechargeable batteries

Ⅲ

	Seca 000
θ.	Wireless multifunctional scale with stable handrail and high load bearing capacity, with castors for transport ease.
	Page 83

300 kg

100 g < 200 kg > 200 g

910 x 1,100 x 1,064 mm

800 x 50 x 840 mm

59.5 kg

Power adapter

Ⅲ

1 x integrated

seca 685 r (incl. dialysis interface cable)

seca 451 (only for seca 685 r)

,00	3000 011
unctional le handrail learing leastors for	Wireless wheelchair scale with handrail and transport castors.

300 kg

100 g < 200 kg > 200 g

920 x 1,120 x 1,150 mm

800 x 55 x 965 mm

38 kg

Power adapter

Ⅲ

2 x integrated

seca 677 r (incl. dialysis interface cable)

seca 451 (only for seca 677 r)

Seca Of I	Seca 000	
eless wheelchair le with handrail and sport castors.	Wireless electronic wheelchair scale with high capacity, collapsible, wheels for transport and integrated time module.	
Page 84	Page 85	

300 kg

100 g < 200 kg > 200 g

1,102 x 912 x 1,150 mm

800 x 55 x 965 mm

33.4 kg

Power adapter, rechargeable batteries

Ⅲ

2 x integrated

Page 86

300 kg

100 g < 200 kg > 200 g

893 x 87 x 1,655 mm

800 x 55 x 1,465 mm

46.2 kg

Power adapter

Ⅲ

2 x integrated

Stand for cable remote display seca 472

-	Electronic platform scale with high capacity and wheels for transport.

Page 87

300 kg

100 g < 200 kg > 200 g

904 x 70 x 1,064 mm

800 x 55 x 965 mm

27 kg

Power adapter

Ⅲ

1 x integrated

Stand for cable remote display seca 472, additional ramp seca 470



Chair scales



Wireless chair scale with



Electronic chair scale



Bed and dialysis scale



Electronic bed and

	integrated mechanical lifters and equipment trolley.
	Page 90
ta	
	500 kg

Technical data	
Capacity	
Max. patient weight	
Graduation	1
Dimensions/cart (WxHxD)	
Dimensions/load cells (WxHxD)	
Weight	
Power supply	ı
Approval class	

	326 X 150 X 212 mm
	25.6 kg (load cells + cart)
	Power adapter, rechargeable batteries
	(111)
ries	
	•
	•

limit value	
ing	

RS232 interface

ntegrated mechanical ifters and equipment rolley.		
Page 90		

250 kg

. patierit weight	250 kg		
duation	100 g < 200 kg > 200 g		
ensions/cart (WxHxD)	520 x 927 x 562 mm		
ensions/load cells HxD)	328 x 150 x 212 mm		
ght	25.6 kg (load cells + cart)		
er supply	Power adapter, rechargeable batteries		
roval class	(III)		

TARE/pre-TARE	
HOLD	
BMI	
Lower limit value	
Damping	

seca 460

fine graduation, swiveling with fold up armrests armrests, adjustable foot-rests and BMI function. and footrests.

Page 88-89	Page 88	Page 89	
Technical data			
Capacity	300 kg	200 kg	
Graduation	50 g < 150 kg > 100 g 100 g < 250 kg > 200 g	100 g	
Dimensions (WxHxD)	563 x 897 x 978 mm	563 x 897 x 956 mm	
Weight	24.5 kg	22.4 kg	
Power supply	Power adapter, rechargeable batteries	Batteries	
Approval class	(11)	(11)	

Functi	ons
TARE	
Pre-TA	RE.
HOLD	
Auto-F	HOLD
BMI	
Auto-C	CLEAR
Auto w switch	veighing range -over
Dampi	ng
RESET	Г
Autom	atic switch-off
SEND/	/Auto-SEND
PRINT	/Auto-PRINT

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Accessories for multifunctional and wheelchair scales and bed and dialysis scale

Measuring rod seca 223



Measuring range

Dimensions (WxHxD) Cable length

Graduation

Weight



Page 82

6-230 cm

1 mm

120 x 2,320 x 286 mm

952 g



7.8 kg



2 kg



40 g





122 g

seca 472	seca 470	seca 451	seca 460	
Stand for display elements of seca scales with cable remote displays.		PC interface cable (female) for the multi- functional and wheelchair scales seca 685r and seca 677r.	RS232 interface for transmitting data to PC and/or printer for seca 985.	
Page 87	Page 87	Page 83	Page 91	
460 x 1.035 x 460 mm	810 x 35 x 250 mm		100 x 25 x 60 mm	
400 X 1,000 X 400 IIIIII	010 X 00 X 230 IIIIII	1.1 m	0.3 m + 1.2 m	

116 • Technical data • 117

Organ and diaper scale

TARE/pre-TARE

Automatic switch-off

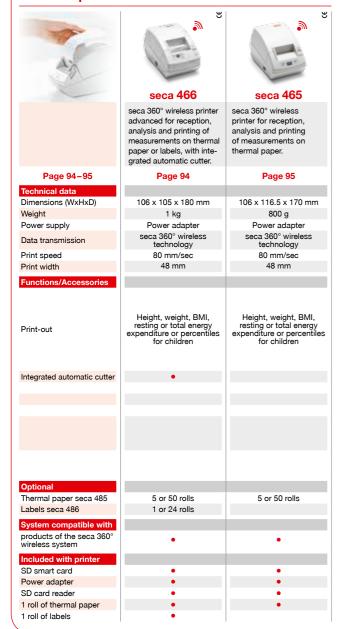
HOLD



Digital portion and diet scale



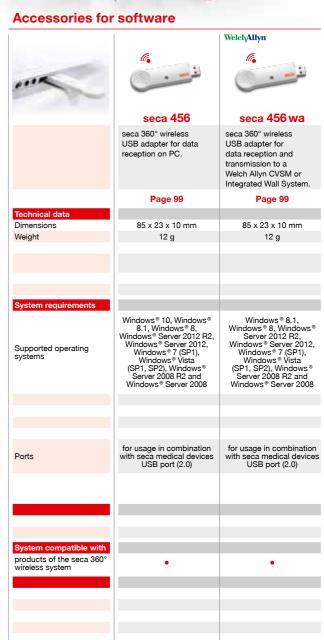
Wireless printers Accessories for wireless printers



Accessories for wireless printers		
	seca 485 Thermal paper rolls for seca 360° wireless printers seca 466 and seca 465.	seca 486 Roll of labels for seca 360° wireless printer seca 466.
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Technical data		
Dimensions (WxHxD) Weight	57 x 59 x 59 mm 140 g	58 x 64 x 64 mm 140 g
Packaging unit	5 or 50 rolls	1 or 24 rolls

Software seca emr flash 101 seca analytics 115 Medical PC software for Software to connect diagnostic assistance. seca 360° wireless products to Electronic Medical Record (EMR) Systems. Page 96-98 Page 96 Page 98 137 x 192 x 7 mm Dimensions (WxHxD) Weight 78 g Windows® 10, Windows® 8.1, Windows® 8.1, Windows® 8.1, Windows® 8.2012 R2, Windows® 5.2012, Windows® 7.2012, Windows® 7.2012, Windows® Vista (SP1, SP2), Windows® Server 2008 R2 and Windows® Server 2008 Windows® 10. Windows® Windows® 10, Windows® 8.1, Windows® 8, Windows® 7 (SP1) and Windows® Vista Supported operating systems (SP1, SP2) Processor 1.2 GHz or higher Hard Disk Space minimum 1 GB Memory minimum 512 MB RAM Additional HW DVD drive for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232) for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232) Ports 1024 x 768, High Colour (16-bit), 32-bit (recommended) Display products of the seca 360° wireless system

Acceptation



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seca technical terms - a brief explanation.

Measuring systems and scales:

TARE function

Useful when any additional weight (e.g. diapers or blankets of babies/small children and also chairs or wheelchairs) is not to be included in the result. First. this additional weight is measured and then the display is reset to zero. The weight of this object is then disregarded at the next weighing.

Pre-TARE function

When activated, a previously stored value is automatically deducted from the currently measured weight. For example, when caregiver and patient stand on the scales together and only the weight of the patient is to be shown.

Intake-Function

BMIF-Breast-Milk- The amount of milk taken by a baby when being breastfed can be ascertained with the aid of the Breast-Milk-Intake-Function. At the touch of a button, the weight of the baby determined before feeding is stored and then deducted from the weight determined after feeding (difference function).

Mother/childfunction

This function was developed to enable the weighing of children in the arms of their parents. When the mother/child-function is activated, the previously stored weight of the adult is deducted from the currently determined value. The display then shows only the weight of the child, with an accuracy of down to 50 g.

HOLD. Auto-HOLD

Once the weight has been saved with a press of the HOLD key, it remains in the display after the patient has left the scale. This function lets the doctor or nurse care for the patient first and then record the weight. When the Auto-HOLD function is activated, the HOLD function is automatically triggered as soon as the weight has stabilized.

BMI function

The Body Mass Index correlates height and weight to one another. A tolerance zone considered to be ideal from a health point of view is between 18.5 and 24.9. If the value is higher or lower, medical advice should be obtained.

The Body Fat Rate compares the patient's percentage of fat with an ideal value. Body height and weight are the basis of calculation; extra consideration is given to gender

Patient data input Data such as gender, age and PAL (Physical Activity Level) can be entered via the input key on the multifunction touch display of the seca 285. Together with the height and weight measurements, the data are wirelessly transmitted to the seca 360° wireless printer, where they are used to calculate the resting energy expenditure and total energy expenditure or percentiles for children and teenagers.

CLEAR, Auto-**CLEAR** function

Old measurements or patient data can lead to incorrect calculations. Therefore, the CLEAR function deletes results from previously measured patients. It can be activated manually or automatically with Auto-CLEAR after five minutes.

Limit value function

For effective monitoring of patients, one can preset a weight limit and an alarm rings if this is exceeded.

Weighing range switch-over, auto weighing range

seca scales with a multi-range function let you quickly switch manually from one range to another. From a fine graduation at low capacity in scale range 1 to maximum capacity in scale range 2.

Damping function

The damping function makes it possible to determine the precise weight in spite of disturbances during the weighing process, e.g. caused by the patient moving. The degree of damping can be adjusted as required before weighing a patient: the stronger the damping. the less sensitively the scales react to the movements during the weighing process.

RESET function

The RESET function restores the factory settings.

SEND, Auto-SEND function

At the press of a button, all measurements and input data are wirelessly transmitted to receive-ready devices such as a scale with a corresponding BMI function, a wireless printer, a PC with the software seca emr flash 101 or software seca analytics 115. When the Auto-SEND function is activated, the SEND function is automatically triggered when the weight on the scale has stabilized or height measurements have been confirmed.

PRINT-, Auto-PRINT-function

With the PRINT function the measurements and input data are wirelessly transmitted to a seca 360° wireless printer, where they are processed and printed. When the Auto-PRINT function is activated, the PRINT function is automatically triggered when the weight on the scale has stabilized or height measurements have been confirmed.

The seca mBCA and seca mVSA:

mBCA	Medical Body Composition Analyzer: a device that provides a medically precise measurement of a person's body composition.	TEE	Total Energy Expenditure: the total energy expenditure consists of the resting energy expenditure and the energy expended for everything the body does (muscle work, mental work, other body exertions).
BIA	Bioelectrical Impedance Analysis: a method of analyzing body composition. This involves measuring the resistance of the body and its parts to a weak alternating electrical current.	HYD	Hydration: the ratio of extracellular water to intracellular water.
FM	Fat Mass: the fat mass defines the amount of body fat in kg as an absolute mass and in % as the relative proportion of the body weight.	Phase angle (φ) Resistance (R),	These represent the raw data from the bioelectrical impedance, analysis that can be used for medical studies. This includes the impedance, the phase angle and the two impedances, resistance and reactance.
FFM	Fat-Free Mass: the total body weight minus the fat mass.	ВМІ	Body Mass Index: the unit of measurement for the analysis of body weight in relation to a person's height, calculated using
FMI	Fat Mass Index: this index measures the proportion of body fat based on the height, weight and fat mass.		the formula (weight in kg/height in m) ² .
FFMI	Fat-Free Mass Index: this is a measurement of the muscle definition of a human body. The measurement is based on the	BIVA	Bioelectrical Impedance Vector Analysis: the way in which the BIVA is presented enables analysis of hydration and cell mass.
	body height, weight and fat-free mass.	BCC	Body Composition Chart: the Body Composition Chart developed by seca shows the measurement points of the fat mass
SMM	Skeletal Muscle Mass: this includes all the muscles that are attached to the skeleton or – by extension – used to move the body.		index in a coordinate system and helps to determine body composition.
твw	Total Body Water: the sum of the fluids outside and inside the cells of the body, not including the substances dissolved	EMR	Electronic Medical Record: these are information systems that are used in hospitals to record and present patient information.
	therein.	HL7, GDT	These are recognized data formats needed by most EMR systems to process patient data.
ECW	Extracellular Water: all fluids found outside the cells in the human body.	mVSA	Medical Vital Signs Analyzer: A device that measures the vital parameters of blood pressure, SpO ₂ , pulse, temperature
ICW	Intracellular Water: all fluids found inside the cells in the human body.		and, by means of a measuring mat, body composition (Bioelectrical Impedance Analysis).
REE	The amount of energy that the body needs per day of complete rest, at room temperature and with an empty stomach, in order to keep the bodily functions working.	SpO ₂	Pulse oximetry is used to measure blood oxygen saturation and pulse rate. The non-invasive method employs a fingerclip sensor.
		NIBP	Non-invasive blood pressure measurement: the oscillatory measurement method measures blood pressure by means of



The products in this catalog bearing the symbol CE0 123 and / or CE 102 fulfill the applicable requirements of directive 93/42/EEC on medical devices or directive 2014/31/EU on non-automatic weighing instruments



Products bearing this symbol fulfill the applicable requirements of the following directive:

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93/42/EEC on medical devices



Scales bearing this symbol and products shown in this catalog bearing the CE 0102 sign comply with directive 2014/31/EU on non-automatic weighing instruments. seca scales with this symbol comply with the stringent quality and technical requirements applicable to calibratable scales. Scales bearing this symbol fulfill the applicable requirements of directive 93/42/EEC on medical devices.



a cuff placed around the upper arm or thigh.

Scales bearing this symbol comply with the strict stringent of Class III or IIII of the directive and can be used for medical mea-



The professionalism of seca is also officially recognized. The notified body for medical devices responsible for seca confirms with the certificate that seca consistently complies with the strict legal requirements as a manufacturer of medical devices. The quality assurance system at seca includes the areas

of Design and Development, Production

Sales and Service of medical scales, height measuring instruments, software and measurement systems for the assessment of health status and nutritional condition. seca is authorized to conduct the manufacturer's conformity assessment of medical



We are anxious to preserve our natural resources. This is why we strive to save packaging material where practical. And what is left over can be conveniently disposed of locally via Germany's Dual System recycling

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the brand of the medical field.

t seca, we have been understanding medicine since 1840. It is also very important to us, as it is our understanding that enables us to find answers. Only through understanding can we develop products that will provide doctors, nurses, and other health care professionals with effective support for their work. And we also care about the patient's well-being.

Experience









Quality





seca polska seca suomi



Progress

Experience is valuable if it gives birth to understanding.

- The same process since 1840:
 develop question improve
- Continuous development thanks to our own production sites
- Many years of dedication and expertise in the fight against widespread disease such as chronic obesity

Innovation means thinking outside the box.

- seca products are an integral part of the process of diagnosis and therapy
- More than just products: system solutions for simple integration of data into any EMR system
- Intelligent details make working with patients easier
- The prerequisite for innovation: an in-house development department
- Multi-award winning design









International outlook

High quality proves itself over time.

- A secure investment: long service life
- Precise measurement under difficult conditions
- Global quality management to local national standards
- · All-around service, also after purchasing
- Exclusive authorization from governing bodies to certify our own products

If you know the world, you know how the world works.

- The world market leader in medical measuring and weighing
- Products exported to more than 110 countries
- Knowledge of markets and routine medical work in different countries thanks to local subsidiaries and partners
- Used everywhere: from the most advanced clinics to development aids

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seca and art

See the world through our eyes.

That's the way artists have thought since art began and the way we have thought since seca was founded. That was and is precisely why art has grown into an important source of inspiration over our 176 years of existence. It brings up new questions, leads to new perspectives, and expands horizons – for our products too. We would like to have you participate in this process. In 2009, for instance, media artist Christina Lissmann created an image portfolio for seca that shows our products in a limitless fantasy world. In the current seca art project the renowned photographic artists, Barbara Metz and Eve Racine, are dealing with balance in the body. Without it, the body falls ill – balance is recovered in the end with the aid of seca. The human body is illustrated in an abstract and mechanical yet also playful and lively way. Welcome to the inspiring, limitless world of art. Welcome to seca.