



U1 C HAI




Sinn

SPEZIALUHREN ZU FRANKFURT AM MAIN



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DEAR CUSTOMER,

Since the company was founded in 1961, we have focused on the creation of high-quality mechanical watches. Nowadays, watch lovers associate innovation and patents with the name of Sinn Spezialuhren. And it's not just our diving watches that stand for high performance, robustness, and durability, quality and precision.

These watches do, however, constitute an outstanding example of how we repeatedly push the limits of what can be achieved physically in development.

We are driven by the question of which new technologies and materials can be used to make diving watches safer and more suitable for everyday use. It is often worth indulging in a little lateral thinking to see what is going on in other industrial sectors or fields of science.

It is therefore no coincidence that the series U1, U2, U50, U212 and UX are made of high-strength, seawater-resistant German Submarine Steel. Another example is the T50 model. All the case parts of this timepiece are made of high-strength titanium. Both German Submarine Steel and high-strength titanium predestine our diving watches for use in salt water. We also demonstrate a high level of expertise with the goldbronze alloy developed by us for the models T50 GBDR and T50 GOLDBRONZE. Due to the exceptionally high degree of purity, there is improved skin compatibility and increased corrosion resistance to seawater compared to conventional bronze alloys.

Fittingly, we work closely with an independent company specialising in technical maritime security. The world's largest classification society DNV checks and certifies the diving-watch data - including compliance with European diving device standards, which is unique in the watch industry.

I am delighted that you have decided to buy a SINN diving watch and hope that it will continue to give you pleasure for many years to come.

Yours,

A handwritten signature in black ink, appearing to read 'L. Schmidt', with a stylized flourish at the end.

Lothar Schmidt



GREETINGS FROM THE EDITORS

Sinn Spezialuhren collaborated with the watch magazines Chronos and WatchTime Germany to create the U1 C HAI diver's watch. This limited edition celebrates the functional diver's watches made of submarine steel from the Sinn brand. We have tested these models while freediving and in active water caves, and we are impressed by the robust cases and optimal readability. The shark grey dial draws inspiration from the underwater world and embodies its own unique aesthetic.

The Fascination of Sharks: Encountering a shark as a diver not only provides an adrenaline rush but is also one of the most beautiful experiences underwater. These predators are far less dangerous than commonly assumed. The placoid scales on their skin are unique, significantly reducing flow resistance and enabling sharks to swim faster. The gradient dial, which transitions from grey to black, visually integrates this natural technology with the U1. The colour-coordinated silicone strap in grey underlines the special design. The shark engraving on the back serves as a reminder of the majestic animal to which we have dedicated this watch.

The Sinn U1 C HAI remains a highly functional watch that can withstand the toughest everyday use. Thanks to its tegimented and hard-coated case, the timepiece is extremely scratch-resistant, water-resistant to 1000 metres, low-pressure resistant, equipped with a captive diver's bezel, resistant to seawater due to submarine steel, and easy to read in all situations thanks to its high luminosity and strong contrast. It thus combines several SINN technologies.

The "C" in the model designation stands for the watch magazine Chronos, which, together with Uhren-Magazin, is now bundling its activities under the joint WatchTime Germany flag. As a media brand, WatchTime has been guiding readers through the world of watches for 25 years. With the German edition, we look forward to continuing to be your first port of call when it comes to high-quality watches. But first, we hope you enjoy your new Sinn U1 C HAI.



Yours, Rüdiger Bucher,
Editor-in-Chief Chronos +
Senior Managing Editor WatchTime Germany

Chronos
WatchTime
GERMANY



Sinn

ENGINEERING OF TECHNOLOGY IN MADE

Sinn

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SINN SPEZIALUHREN ZU FRANKFURT AM MAIN

It was back in 1961 that pilot and blind-flying instructor Helmut Sinn founded the company. Since then, we have been committed to producing high-specification mechanical watches. In 1994, the graduate engineer Lothar Schmidt took over the company. This marked the beginning of a new era for the SINN brand, because the new owner took a decisive step towards more innovation. Under his leadership, new technologies and materials were introduced, thus providing the crucial incentives for our company's evolution and gradual emergence as an insider's tip for lovers of fine watches. Today, our name stands for technical innovations – much to the delight of both the trade and our customers alike.

Technical innovations

Take, for example, the absolutely condensation-free, anti-reflective, German Submarine Steel diving watch – made possible by HYDRO Technology. Other examples include a chronometer chronograph fashioned from a 22-carat gold alloy that is as hard as stainless steel and a chronometer with a magnetic resistance of up to 100 mT (= 80,000 A/m). There are also watches with a clockwork mechanism optimally protected from aging by an inert gas and integrated dehumidifying capsule. The list would not be complete without mentioning the development of mission timers (Einsatzzeitmesser or EZM in German) for firefighters, for special police units and border patrol guards. DIAPAL is one of our most important technological developments, with oiling no longer needed for the most important functions in the watch thanks to the materials we select. This technology was first used in 2001. With the aid of TEGIMENT Technology, we achieve greatly increased scratch resistance through surface hardening.

Ongoing advancement in technology and quality

Our top priority has always been to develop watches that offer superior performance – both in daily and in professional use. Which is why our engineers are working continually to identify which innovative methods, materials and technologies are best suited for optimising our watches. Each new development has to first undergo rigorous practical tests before being incorporated. And no watch leaves our workshops before it has been subjected to thorough checking and fine adjustment by our master watchmakers.

Innovations in endurance testing

The world's largest classification society for maritime safety DNV, has been testing our diving watches for pressure and water resistance since 2005. As part of DNV's official certification process, our diving watches have been treated as part of diving equipment since 2006 and tested and certified in accordance with European diving equipment standards. This is unparalleled in the watch industry. Selected pilot watches are tested and certified by independent institutions according to the DIN 8330 Horology – Aviator watches in an extensive and complex type and unit verification process.



This ensures that a DIN 8330-compliant pilot watch is not only a suitable all-round replacement for the on-board timekeeping instruments available to pilots, but is also capable of remaining unaffected by the physical stresses of flight, posing no risk potential for the crew or aircraft, and demonstrating compatibility with other on-board instruments.

The Temperature Resistance Technology keeps mechanical watches performing at temperatures ranging from -45°C to $+80^{\circ}\text{C}$. This technology has proven its worth in the EZM 10 TESTAF, for example, used as part of the official approvals procedure for Airbus Helicopters (formerly Eurocopter) EC 145 T2 high-performance helicopter. The 303 KRISTALL is impressive proof of the functional reliability of our watches under the toughest climatic conditions. Equipped with Temperature Resistance Technology, the chronograph passed the acid test at the Yukon Quest, the world's most demanding dogsled race. The 203 ARKTIS passed its Arctic endurance test on the wrist of extreme diver Mario M. Weidner, withstanding all dives in the freezing cold waters of the Arctic Ocean above 81 degrees latitude. Both watches were worn on top of protective clothing. The real test was in the extreme temperature fluctuations between water and land – a test that the 303 KRISTALL and the 203 ARKTIS passed with flying colours.

Image: All of the technical details of our watches are documented by tests. This system of assessment has been specially designed for certification of the pressure resistance of our diving watches by DNV.

Workshop modifications

From the robust case and the polished crystal to the exquisitely decorated movement, we make sure that each and every detail in our watches is fit for purpose. In addition to our technology, the heart of any SINN watch is the fascinating mechanical movement. That is why we rely only on selected renowned manufacturers.

“SZ movements” is the name given to our movement modifications. The results are high-quality calibres characterised by impressive features. An example of this is the SZ04 with regulateur for the 6100 REGULATEUR series.

The model series 140 and model 717 uses our proprietary chronograph development, the SZ01. It was modelled on the Lemania 5100 calibre used in the EZM 1. One of the biggest differences between the SZ01 and the Lemania 5100 is the former's stopwatch minute display. This feature now makes it even easier and quicker to record stop times more accurately. The aim of this modification was to significantly improve the readability of the chronograph function.

The SZ calibres 02, 03, 05 and 06 are a modification of the SZ01 movement, characterized by an off-center 60-minute counter. The 60-minute scale of the stopwatch minute counter is much simpler and more intuitive to read than the 30-minute scale commonly found in other watches.



SINN HAS DIVING WATCHES INDEPENDENTLY TESTED AND CERTIFIED

We attach great importance to ensuring that information about our watches is verifiable. With this in mind, our company has its diving watches tested and certified according to various criteria: While one test procedure focuses on water resistance and pressure resistance, a second procedure is concerned with something that has never been done before in the watch industry: certification in accordance with European diving equipment standards!

The background: time plays an important role in survival on every dive. Diving watches must therefore be water-resistant, reliable and robust and guarantee perfect readability in all light and water conditions. In addition: For us, the certifications are a matter of course and the fulfilment of a quality promise. Our specifications for diving watches are therefore not only expressed in words, but also proven by deeds.

Testing for water resistance and pressure resistance

We have been having our diving watches tested for water resistance and pressure resistance for years. In accordance with the certification standards, the 206 ARKTIS II and 206 St Ar models are pressure-resistant up to 30 bar, the T50, T50 GBDR, U50 S L, U50 DS, EZM 3, EZM 13.1, EZM 13 and the U50 model series are pressure-resistant up to 50 bar, the T1, U1, U1 S, U212 and U1000 model series are pressure-resistant up to 100 bar, and the T2, U2 and U200 model series are pressure-resistant up to 200 bar. The U50 HYDRO, UX (EZM 2B) and UX GSG 9 (EZM 2B) model series are even water-resistant and pressure-resistant to a diving depth of 5,000 metres (= 500 bar).

The tests are repeated at regular intervals on all series of these watches in order to document the consistency of quality time and time again.

Premiere: certification in accordance with European diving equipment standards

Is it possible to demand the same from a diving watch in a test procedure as from a breathing apparatus, for example? To answer this question, we were the first company ever to have diving watches recognised as diving equipment and tested accordingly as part of an official certification process. This inspection in accordance with the European diving equipment standards EN250 and EN14143 was completely new territory. This is because the standards relate to diving equipment and therefore cannot simply be applied one-to-one to watches. They were therefore adapted and two test series defined accordingly. In the first test, the timepieces are stored for three hours at $-20\text{ }^{\circ}\text{C}$, followed by a further three hours at $+50\text{ }^{\circ}\text{C}$. The watches are then checked for accuracy and functional reliability at both temperatures. In a second test, the watches have to withstand three hours at $-30\text{ }^{\circ}\text{C}$ and three hours at $+70\text{ }^{\circ}\text{C}$ and 95 % humidity. The result: temperature resistance and flawless function were established for the tested watches after both test runs and certification was granted. The U50 HYDRO and UX model series are subjected to an adapted test down to $-20\text{ }^{\circ}\text{C}$ and $+60\text{ }^{\circ}\text{C}$ respectively due to their battery operation and oil filling.



U1 C HAI

With the U1 C HAI, we are presenting a special edition limited to 300 pieces with a color gradient on the dial and a Black Hard Coating together with the specialist watch magazines Chronos and WatchTime Germany.

We only use this coating on cases that are surface-hardened using TEGIMENT technology. Only this combination guarantees the high quality of the color coating.

With its striking design, reduced displays and clear readability, the U1 C HAI focuses on the essential details. The dial, which is available in two shades of color, is particularly eye-catching and is stylishly accentuated by the harmonious interplay with the black case. The gradient from black to grey towards the center of the dial creates an exciting interplay of colors. This design is complemented by the silicone strap in grey, which is now available for the first time with a 22 mm lug.

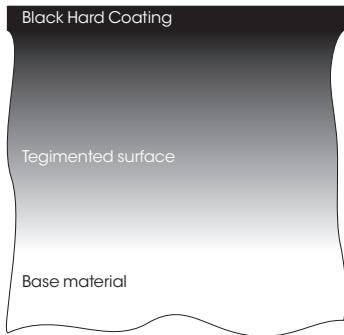
The case of the U1 C HAI is made of high-strength German Submarine Steel, which is extremely resistant to seawater and has the highest amagnetic quality. The diver's bezel with minute ratcheting is captively connected to the case. This reliably prevents the bezel from jumping off, even in the event of hard impacts. All examples of the limited U1 C HAI are engraved with a shark motif and consecutively numbered on the case back.

DNV confirms and certifies the pressure resistance of the U1 C HAI up to a diving depth of 1,000 m and the temperature resistance and function in accordance with European diving equipment standards.



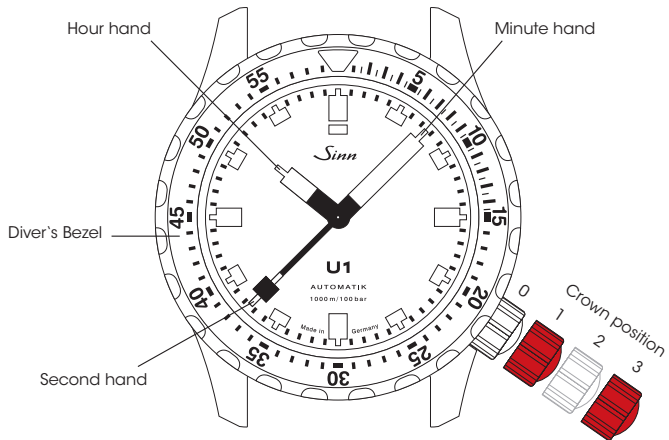
TEGIMENT Technology and the Black Hard Coating

With the aid of TEGIMENT Technology, we achieve greatly increased scratch resistance through surface hardening. TEGIMENT Technology increases the level of hardness of the base material, such as submarine steel, many times over. To achieve this, we do not apply any coating. The material itself is hardened in the surface area. The hardened surface is far better protected against scratching than the surface of the base material. The tempering with the TEGIMENT Technology forms the basis for the application of the Black Hard Coating – a high quality PVD coating.



Schematic diagram showing the hard coating on a surface hardened with TEGIMENT Technology.

INSTRUCTIONS FOR USE



Winding the watch (crown position 1)

The crown is screwed down (crown position 0). To loosen the crown, turn it *counter-clockwise* (crown position 1). The movement is wound manually by turning the crown *clockwise*. Under normal circumstances, a few turns of the crown are enough to start the movement. We recommend 20 full turns of the crown for the initial use. Simply wearing the watch every day should suffice to keep the self-winding mechanism wound. The power reserve allows you to take off your watch overnight without having to rewind it. About 40 turns of the crown by hand will wind up the watch completely. Because the winding mechanism of your watch is designed for automatic winding with minimal winding speed, the watch should be wound at a moderate, consistent speed when winding by hand to avoid damaging the movement.

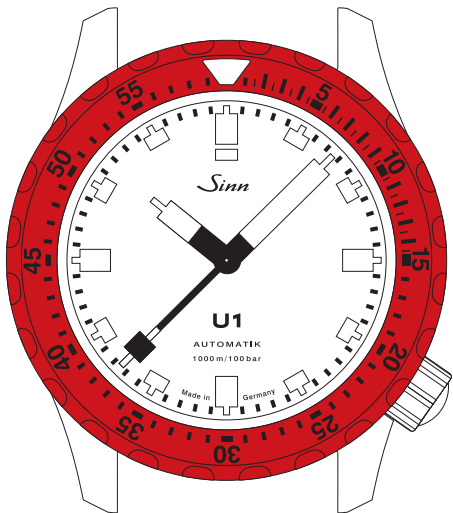
Time adjustment (crown position 3)

In crown position 3, the motion is paused. This helps you to set the watch precisely. Afterwards you attempt to set the time. We recommend moving the hands past the desired minute marker and then adjusting it backwards. The movement restarts as soon as the crown is no longer in position 3.

Please take care to fasten the crown after making adjustments.

USING THE DIVER'S BEZEL TO MEASURE TIME

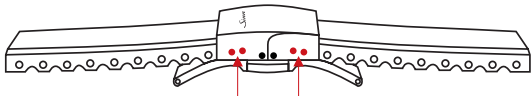
The diver's bezel is a rotatable bezel that can be set to the minute and only be rotated in one direction to prevent accidental adjustment. It has a luminous main marker which can be used in various ways. It can be used to highlight important time periods. Use it, for example, to mark the start of a period of time; the elapsed time can then be read off at a glance at any time.



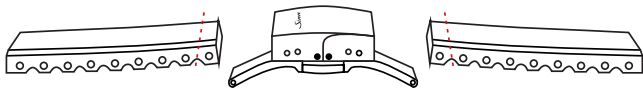
ADJUSTING THE LENGTH OF THE WATCH STRAPS

If you don't know how to shorten or lengthen the solid bracelet, please contact your SINN dealer or the watchmakers in our customer service department in Frankfurt am Main. Our customer service employees are also happy to help you over the telephone.

1. Release the silicone band from the clasp. To do so, use the pointed end of the band replacement tool to push the spring bar out of the fastener. The other side of the spring bar can be removed while the fastener is open, enabling you to remove the silicone band.

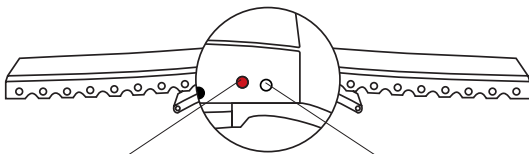
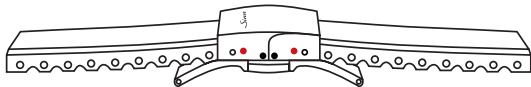


2. Using a knife or scissors, cut the silicone band in the middle between two metal pins. You should shorten the band symmetrically and little by little, starting from the clasp, until you have reached the desired length. Test the length from time to time before proceeding. Shortening both ends by the length of one metal pin results in a total difference of 10 mm in the length of the strap; shortening one end reduces the length by 5 mm.



3. Remove the first metal pin and replace it with the spring bar. Then reattach the clasp to the band.

4. Assembling the butterfly folding clasp as follows:
We recommend first inserting the bar at the red marker, as per the illustration.
If the silicone strap is too tight, use the option shown in the illustration by the white marker.



Hole for spring bar:
Tight-fitting strap

Hole for spring bar:
Extend strap

If you want to shorten the overall length of the silicone strap, refer to steps 1 to 3.

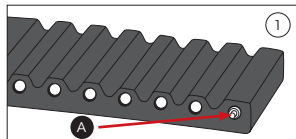
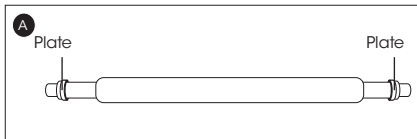
Silicone strap with folding clasp with strap-length quick adjustment

Step 1:

Fitting the folding clasp with strap-length quick adjustment

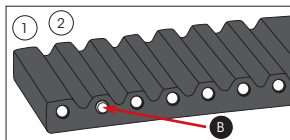
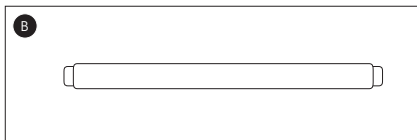
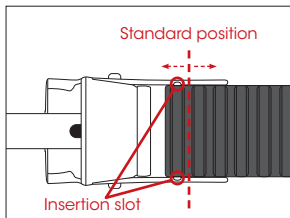
We recommend that you fit the folding clasp before shortening the silicone strap. Doing so will enable you to make a better assessment of whether you need to shorten the silicone strap. To avoid misunderstandings or mistakes, you should fit the two halves of the silicone strap exactly as described below.

On the silicone strap half with the SINN logo, insert spring bar **A** (see diagram) into the empty hole at position **1**. If a spring bar has already been pre-installed, replace this in any case with spring bar **A**. Then attach the folding clasp to this silicone strap half. To do this, insert the silicone strap half with the spring bar on one side into the hole in the folding clasp. Using the band replacement tool, press on the plate on the opposite side of the spring bar to position it in the hole. Pull on it to check whether the folding clasp is secure.



Next, on the silicone strap half without the SINN logo, remove the metal pin at position (2) and replace it by stud (B) (see diagram). Slide the stud as centrally as possible into position (2), so that both tapered ends of the stud protrude laterally from the strap. Then place the removed metal pin into the empty hole at position (1). If a spring bar is already pre-installed at this position, remove it and insert the metal pin referred to above. The pin acts as an adjustment tool and increases the stability of the strap guide when pulled laterally (see **Step 2**).

Open the retaining bar on the unfolded folding clasp and guide the silicone strap half with the stud from above via the insertion slot into the guide rails of the folding clasp. Position the silicone strap so that you can move it at least one position forward and one position back (standard position, see diagram). Then close the retaining bar again.



Step 2:

Strap-length quick adjustment

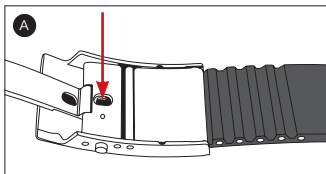
First, try on the fully fitted silicone strap on your wrist before you carry out a quick adjustment to the strap length.

To carry out an adjustment, proceed as follows (see diagrams).

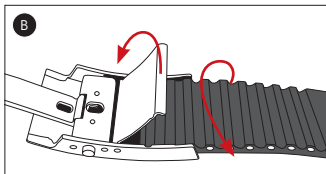
Please note: To use the quick adjustment, take the watch off your wrist.

A. Take the folding clasp in your hand.

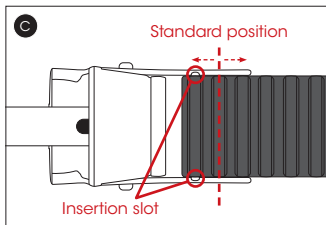
To fix your grip, press firmly on the underside of the folding clasp with your thumb. Ensure that you do not obstruct the retaining bar with your thumb.



B. Hold the silicone strap with your other hand to open the retaining bar with a lever action. To do this, fold the side of the silicone strap facing away from you upwards.



- C. From the standard position, the silicone strap can be moved one position forward or back. To make the silicone strap tighter, move it one position to the left. To make the silicone strap looser, move it one position to the right.



After making the adjustment, press the retainer bar back into the appropriate free spindle on the silicone strap. Check whether the retainer bar is securely locked into place.

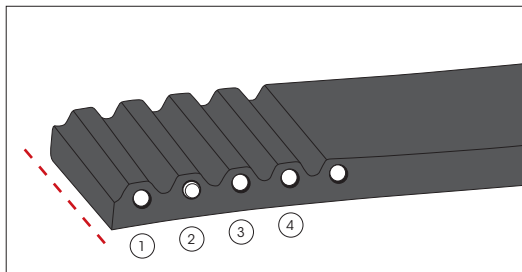
Step 3:

Shortening the silicone strap

Be very careful when shortening the silicone strap!

In all cases, shortening of the silicone strap should be carried out symmetrically and on a step-by-step basis until the desired strap length has been achieved. If asymmetric shortening is necessary, the contact side should be shortened more. Keep trying on the silicone strap in between. Shortening on both sides by one hole in each case corresponds to a reduction of the total size by 10 mm – a one-sided length reduction of 5 mm.

Please note: As described in **Step 3**, the stud on the silicone strap half without the SINN logo must always be in position (2), a metal pin is always located in position (1). Use the stud to determine the margin for the strap-length quick adjustment so that you will be able to compensate for a changed wrist circumference (e.g. due to temperature-related variations). To use a minimum margin, at least four positions should always be occupied on the silicone strap half without the SINN logo, in the following sequence: Metal pin (1), stud (2) and two additional metal pins (3) (4) (see diagram).



First, shorten the silicone strap half for the strap-length quick adjustment (without the SINN logo). To do this, sever the silicone strap with a knife or pair of scissors centrally between the last metal pin and the stud in position ②. After severing the silicone strap, remove the stud and replace it with a metal pin. Replace the stud at the second-to-last position after first removing the metal pin. Open the retaining bar on the folding clasp and guide the shortened silicone strap half with the stud from above via the insertion slot into the guide rails of the folding clasp. From the standard position, the silicone strap can be move one position forward or back (see diagram © **Step 2**). Close the retainer bar and try on the silicone strap.

If a further shortening is necessary, you will then need to carry this out on the silicone strap half with the SINN logo. To do this, you will first need to remove the folding clasp. After doing this, sever the silicone strap again with a knife or pair of scissors – centrally between the spring bar and the metal pin. After severing the strap, replace the outermost metal pin with the spring bar and then reattach the folding clasp to the silicone strap (see **Step 1**). Try on the silicone strap.

You can use this principle to make any additional shortenings that may be necessary.



Luminous design

TECHNICAL DETAILS

Mechanical Movement

- SW 200-1
- Self-winding mechanism
- 26 bearing jewels
- 28.800 semi-oscillations per hour
- Seconds stop function
- Anti-magnetic as per DIN 8309

Functions

- Hours, minutes, seconds
- Diver's bezel with minute ratcheting and luminous key mark

SINN Technologies

- Black Hard Coating on a TEGIMENT Technology basis
- Captive diver's bezel

Dial and Hands

- Dial with colour gradient from grey to black
- Indices coated with luminescent colour
- Hour, minute and second hand coated with luminescent colour

Watch Case

- Case made of German Submarine Steel, black
- Sapphire crystal in front, anti-reflective on both sides
- Case back screw-fastened
- Crown screwable
- Meet the technical requirements for water resistance, as set out in standard DIN 8310
- Water-resistant and pressure-resistant to 1,000 m diving depth (= 100 bar), certified by an independent institute
- According to the technical demands for the German diving norm DIN 8306
- Tested based on European diving equipment standards EN 250 / EN14143 and certified by an independent institute
- Low pressure resistant
- Case diameter: 44 mm
- Band lug width: 22 mm



ADVICE

Water resistance

In its original condition, your watch fulfils the technical requirements of water resistance according to DIN 8310. The static compressive stress of your watch is given in bar. Each and every one of our watches is tested for water resistance. However, in everyday use it is important to note that seals can suffer from wear and ageing over time due to a wide range of factors which arise when wearing a wristwatch. We therefore recommend having the water resistance checked at least once a year. To ensure your watch retains its water resistance for as long as possible, rinse it with tap water if it comes into contact with seawater, chemicals or the like. Continual mechanical stress in the form of shocks and vibrations can also not only reduce water resistance, but also increase wear and tear of the movement. Care should therefore be taken to protect your watch from unnecessary impacts.

Accuracy

The measured results of the watch's rate are always "snapshots" taken under laboratory conditions. For this reason, we also take each owner's individual movements into account when making a specific regulator correction. It is therefore only possible to judge the accuracy of your watch after it has been in operation for approximately eight weeks. In the event of a deviation, please keep a daily record of its timekeeping over an extended period, for example one week.

Do you have any questions? Our employees will be pleased to advise you.

Telephone: + 49 (0)69 / 97 84 14-400

Telefax: + 49 (0)69 / 97 84 14-401

E-mail: service@sinn.de



SERVICE

Does your SINN watch need an inspection, repair, retrofitting or reconditioning?

If possible, please use our service order form. For information about our service order form, please refer to the section entitled "Customer Service" on our website www.sinn.de/en and to the section entitled "Servicing and repairs" in our general terms and conditions at www.sinn.de/en. We would be happy to send you a copy of the general terms and conditions.

Our international partners generally offer on-site service. However, should they be unable to provide a certain service, they will organise the safe dispatch and return of the SINN watch to our manufactory in Germany. Please be aware that our partners will wait until they have a sufficient number of SINN watches before they post a shipment, in order to keep transport costs and customs duties to a minimum. This will increase the processing time.

Alternatively, you can send your SINN watch to us directly. You will be required to cover the postage costs for the delivery and return shipment, which vary depending on the country. For insurance reasons, we strongly recommend sending us any return goods by registered parcel post. We regret that we are unable to accept deliveries with unpaid postage!

In case you have a chance to drop off your watch directly at our office in Frankfurt am Main we look forward to your visit. Please make a note of our opening times.

For information about our service, please refer to the section entitled "Customer Service" on our website www.sinn.de/en or +49 (0)69 / 97 84 14-400.

Sinn

SPEZIALUHREN ZU FRANKFURT AM MAIN

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Technische Änderungen vorbehalten.

Technical specifications are subject to changes.





SOLAR

ARKO

SUB

