THE 2024/2025 CATALOGUE

Sinn

Spezialuhren zu Frankfurt am Main

Vorwort

Liebe Uhrenfreunde,

wie lange warten Sie schon auf die Neuauflage unserer Modellreihe 903, unsere Navigationschronographen? Ab sofort sind diese Uhren wieder bei uns bestellbar – technisch komplett überarbeitet:

Im Inneren des 20 bar druckfesten Gehäuses arbeitet jetzt ein neu entwickeltes Schaltradchronographen-Uhrwerk. Die Leuchtelemente sind aus Hybridkeramik (Seiten 52–55), und nicht zuletzt lässt sich der Drehring wieder klassisch am Außendurchmesser bedienen.

Weitere Neuheiten sind:

- *Modell 103 St Ty Hd: Ein echter Klassiker mit Handaufzug, limitiert auf 1.000 Stück (Seiten 6–9)*
- *Modellreihe U50 HYDRO: Taucheruhren aus deutschem U-Boot-Stahl mit HYDRO-Technologie (Seiten 90–93)*
- *Modell U50 S L: Taucheruhr aus deutschem U-Boot-Stahl mit einem lang nachleuchtenden hybridkeramischen Zifferblatt (Seiten 86–87)*
- *Modellreihe 356 FLIEGER Klassik mit Bicompax-Anzeige (Seiten 28–31)*

Und nicht zuletzt für unsere Fußballfans:

- *Modell 910 Eintracht mit Vereinslogo als Applik auf dem Zifferblatt zum 125-jährigen Vereinsjubiläum des Bundesligisten Eintracht Frankfurt, auf 500 Stück limitiert (Seiten 56–57)*

Allgemein sei noch angemerkt, dass sich am 1. September 2024 meine Übernahme der Firma Sinn zum 30. Male jährt. Ich habe diesen Schritt in die berufliche Selbstständigkeit nie bereut – und ja, ich würde es wieder tun!

Ihnen allen – ob Mitarbeiter oder Kunde – danke ich ganz herzlich für Ihre Mitarbeit und Treue zu meinem – nein – unserem Unternehmen!

Ich wünsche Ihnen wie immer viel Freude bei der Lektüre dieses Katalogbuches!

Foreword

Dear watch enthusiasts,

How long have you been waiting for the new edition of our 903 model series, our navigation chronographs? These watches are now available to order again - with a completely revised technical design:

A newly developed column wheel chronograph movement now operates inside the 20 bar pressure-resistant case. The luminescent elements are made of hybrid ceramic (pages 52-55), and last but not least, the bezel can once again be operated in the classic manner on the outer diameter.

Other new products include:

– Model 103 St Ty Hd: A true classic with manual winding, limited to 1,000 pieces (pages 6-9)
– Model series U50 HYDRO: Diver's watches made from German Submarine Steel with HYDRO technology (pages 90-93)
– Model U50 S L: Diver's watch made of German Submarine Steel with a luminious hybrid ceramic dial (pages 86-87)
– Model series 356 FLIEGER Classic with Bicompax display (pages 28-31)

And last but not least for our football fans:

– Model 910 Eintracht with club logo as an appliqué on the dial to mark the 125th anniversary of the Bundesliga club Eintracht Frankfurt, limited to 500 pieces (pages 56-57)

On a more general note, 1 September 2024 marks the 30th anniversary of my takeover of Sinn. I have never regretted this step into self-employment - and yes, I would do it again!

I would like to thank you all - employees and customers alike - for your cooperation and loyalty to my - no, our - company!

I hope you enjoy reading our catalogue.

Lothar Schmidt, qualified engineer

Contents


Sinn
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Instrument Watches and Chronographs

These watches are modelled on our very first navigation cockpit clocks and continue to maintain the high standards expected of such timepieces: optimum readability, maximum precision, absolute reliability.


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103 St Ty Hd – green boar leather strap with red contrast stitching.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

103 St Ty Hd – black boar leather strap with decorative perforations and white contrast stitching, which merges into red at the end of the strap to create an attractive contrast.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

The watch comes in a fine case with two boar leather straps in green and black, band replacement tool, spare spring bars and a brochure.

103 St Ty Hd – luminous design.

Back view of the **103 St Ty Hd**.

Large picture:
103 St Ty Hd – green boar leather strap with red contrast stitching.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

Modell 103 St Ty Hd
The classic hand-wound chronograph

Which watches embody the essence of our company best of all? The answer to this question is easy for connoisseurs of our brand: the timepieces from the 103 series, which have been part of our collection as classic pilot chronographs since the mid-1960s and have since become the defining ambassadors for our company. Some watch lovers will no doubt remember that in the early days – in addition to timepieces with automatic movements – individual models also featured acrylic glass and hand-wound movements. Is it the love of tradition and the art of watchmaking that made SINN watches so popular with such a movement? Or was it the more intensive connection to the phenomenon of time, coupled with the daily ritual of winding the watch? The truth is that this fascination is probably born of various different preferences and values.

– Limited to 1,000 pieces
– Hand-wound calibre, exquisitely decorated
– Case made of stainless steel, polished
– Tachymeter scale
– Pilot's bezel
– Shock-resistant acrylic glass
– Solid back as in the historical original
– Attached appliqués
– Water-resistant and pressure-resistant up to 20 bar
– Resistant to low pressure

With this in mind, the 103 St Ty Hd model is a contemporary tribute to its prestigious predecessors, as it is also equipped with shock-resistant acrylic glass and hand-wound movement. Furthermore, a SINN watch with a hand-wound movement from the 103 series was last officially available around 20 years ago, which makes the release of the 103 St Ty Hd model all the more special still.

The limited special edition 103 St Ty Hd is equipped with the hand-wound SW 510 M movement.

The special calibre is a classic Tri-Compax chronograph dedicated to functionality: stop second from the dial centre, a 30-minute counter at 3 o'clock, 12-hour counter at 6 o'clock and small subsidiary seconds at 9 o'clock on a matt black dial. The symmetrical, V-shaped arrangement of the counters in matt-silk light yellow creates a wonderfully balanced aesthetic and creative design. In keeping with this, the stopwatch second hand and stopwatch minute display are dark red for improved emphasis and thus legibility – a specification also reflected by the stopwatch minute scale. In the interests of faster time recording, the first ten minutes are shown alternately in black and red.

High-quality faceted attached appliqués adorn the matt black dial. In combination with the faceted hour and minute hands, the watch exudes elegance and, thanks to the elements with luminous effect, is also legible in the dark.

Another complication – the tachymeter scale on the interior bezel – satisfies the desire of watch connoisseurs for the precise, manual measurement of speeds from 60 km/h to 600 km/h.

Low pressure resistant, water-resistant and pressure-resistant up to 20 bar, these additional features guarantee a high level of suitability for everyday use. All in all, this 103 is a worthy member of a long-established series of renowned SINN watches, which, not least because of its limited edition of 1,000 pieces, looks set to become a coveted collector's item.

COMMENT MR MICHELE TRIPI

Having been a permanent feature of our watch range since the 1960s, the 103 series has more than earned the right to be called a classic. The legendary timepiece has managed to delight generations of watch lovers over the years. And it's still a firm favourite with countless collectors. Its consistent success might make you wonder what it is that makes this series so special.

The early days

Michele Tripi doesn't need to wonder because he already knows. As someone with a fascination with mechanical wristwatches, he fell in love with our historical watches. And the 103 series is the one that interests him most of all. Having collected this extraordinary timepiece for many years, he has become an expert in his own right. In fact, he even shares his extensive knowledge with the world on his own website (you can find the link in the info box). He reports there that the 103 series dates all the way back to the late 1960s, just before the start of a tough time for mechanical watches. The quartz crisis was just around the corner. Looking back to those early days, it becomes clear that the design of the first-ever 103 watches, and the models that came next, was almost exactly the same as the design of the chronographs being made by other well-known manufacturers at the time. The dial, the case size, the movement with the Tri-Compax layout and the colour of the totalisers were all the same. The watches were more or less a match down to the tiniest details – except they had different logos.

Suppliers from Switzerland

This raises some interesting questions... How did this situation come about? Who came up with the design first and who copied who? "Well, actually, nobody copied anyone. And that includes SINN," explains Michele Tripi. "Back then, most manufacturers didn't actually manufacture their own watches or develop their own designs. It was more common for this kind of watch to be commissioned and made in Switzerland. It follows, then, that all the manufacturers were relying on the same suppliers for their cases, movements and dials. Like so many other companies, SINN bought in watches and added its logo or put watches together using components sourced from suppliers." This was just the way things were done in the watchmaking world at the time. And that's why the typical design of the 103 series was actually not different to the designs being released by lots of other watch manufacturers to start with. In the 55 years or so since, SINN has worked hard to make the 103 series its own. Now, there's no mistaking that this timepiece is part of the SINN collection.

A new era

In the 1980s, the evidence started to suggest that a new era was dawning for the 103 series at SINN. The sales figures were a clear indication. Even though the production run for each model had always been limited to 100, the company started seriously upping the number of 103 A and 103 B watches they were producing. "The major shift began around the end of the 1970s and the start of the 1980s. So we can say that the models from around 1988 onwards were the predecessors of the watches belonging to the 103 series now," says Michele Tripi. "By that point, they featured the Valjoux 7750 automatic calibre and Valjoux 7760 manual calibre. It had always been the Valjoux 72 and 726 before that. The watch face also changed alongside the movements. The classic Tri-Compax display was replaced with totalisers positioned at 6, 9 and 12 o'clock. This was when the series acquired its own signature style. And that signature style is still the defining design feature for many 103 watches to this day." The larger quantities could also be explained by the fact that watch components were more readily available. Not to mention that the brand had built up its reputation on the pilot scene over time and was becoming an increasingly popular insider's tip. Astronaut Reinhard Furrer wearing the 140 S model on his wrist during the legendary Spacelab D1 mission in 1985 also boosted demand.

Historical family ties

Back in the present day, it's obvious that the 103 St Ty Hd is standing on the shoulders of a giant. The style of the limited-edition 103 C with Valjoux 726 shines through in the newest member of the 103 family. Both watches have the hand-wound movement, classic Tri-Compax layout with light-coloured totalisers and tachymeter scale in common. Plus, the first ten minutes on the stopwatch minute display at 3 o'clock are shown alternately in black and red on both timepieces. So what's the verdict according to the expert Michele Tripi?

Secret to success

"The 103 St Ty Hd is a wonderful watch that will undoubtedly prove popular. A quick comparison reveals that it has close links to the original. It has the same dial and hands as the 103 C – and neither watch has a date display. SINN has managed to retain the historical spirit in its modern take on a classic. All of this is extremely interesting to collectors." According to Michele Tripi, the secret to the success of this series lies in its historical ties. It has stayed true to its deepest roots in its design and characteristic features. Changes have been reserved for the inner workings of the watch in the name of modern technology. "It's the consistency of the 103 series that really impresses watch lovers," he says. "I associate the SINN brand with these watches and I know I'm not alone in that. In that respect, the 103 St Ty Hd has been executed perfectly."


Sinn
MON 8
Automatik
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103 St – black textile strap. Case made of stainless steel, polished and acrylic glass. Two-year guarantee, see page 164. (Case diameter: 41 mm)

103 St Sa – stainless steel bracelet. Case made of stainless steel, polished and sapphire crystal glass. Two-year guarantee, see page 164. (Case diameter: 41 mm)

103 St DIAPAL – case made of polished stainless steel. Fine-link bracelet with a butterfly folding clasp. Five-year guarantee, see page 164. (Case diameter: 41 mm)

103 Ti DIAPAL – blue silicone strap. Case made of titanium. Five-year guarantee, see page 164. (Case diameter: 41 mm)

Series 103
The traditional pilot chronograph

– Case made of stainless steel, polished
– Water-resistant and pressure-resistant to 20 bar
– Resistant to low pressure

- **103 St DIAPAL** (also available in titanium):
  – DIAPAL – the lubricant-free anchor escapement
  – Column wheel chronograph, exquisitley decorated
  – Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
  – Functionally reliable from –45°C up to +80°C
  – Second time zone on 12-hour basis
  – Crystal and transparent case back made of sapphire crystal glass
  – Captive pilot's bezel with minute ratcheting
- **103 Ti Ar**:
  – Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
  – Case made of pure titanium, bead-blasted
  – Crystal and transparent case back made of sapphire crystal glass
- **103 St Sa**:
  – Ar-Dehumidifying Technology optional
  – Crystal and transparent case back made of sapphire crystal glass
  – Captive pilot's bezel with minute ratcheting
- **103 St**:
  – Shockproof acrylic glass (sapphire crystal glass optional)

Large picture:
103 Ti Ar – sand-coloured canvas leather strap. Three-year guarantee, see page 164. (Case diameter: 41 mm)


Sinn
Automatik
MON 8
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104 St Sa I MG – sand-coloured canvas leather strap. Shimmering metallic-green dial.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

104 St Sa I – cowhide strap with alligator embossing and contrasting stitching.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

104 St Sa I – black silicone strap with toothed buckle.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

104 St Sa I MG – luminous design.

Back view of the **104 St Sa I MG**.

Series 104 St Sa I
The classic pilot watch

Available with two different dial colours, these timepieces look like classic pilot watches – partly because their design follows SINN's long-standing traditional style. Their clear, structured appearance ensures optimum readability. The watches feature a polished stainless-steel case, as well as a crystal and glass back made of sapphire crystal to allow the accuracy of the mechanical movement to be admired in detail. The pilot's bezel with minute ratcheting can be rotated on both sides and is securely attached to the case.

– Case made of stainless steel, polished
– Captive pilot's bezel with minute ratcheting
– Sapphire crystal glass
– Transparent case back made of sapphire crystal glass
– Water-resistant and pressure-resistant to 20 bar
– Resistant to low pressure

- **104 St Sa I MG**:
  – Shimmering metallic-green dial
- **104 St Sa I**
  – Matt black dial

Large picture:
104 St Sa I MG – solid bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)


Sinn
MON 8
Automatik
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104 St Sa I B – blue leather strap.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

104 St Sa I A – fine grey Alcantara* strap.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

* Alcantara is a registered trademark of Alcantara S.p.A.

104 St Sa I W – fine-link bracelet with a butterfly folding clasp.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

104 St Sa I B – luminous design.

Back view of the 104 St Sa I B.

Large picture:
104 St Sa I B – brown vintage-look cowhide strap.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

Series 104 St Sa I
The classic pilot watch

With a choice of three different dials, these timepieces are classic pilot watches offering optimum readability. The watches display the date and day of the week. They also feature a pilot's bezel with minute ratcheting, which can be rotated on both sides and is securely attached to the case. The crystal made of sapphire crystal is set in a polished stainless-steel case. The glass back is also made of sapphire crystal, allowing the mechanical movement to be admired in all its intricacy. Model 104 St Sa I A received the German Design Award in the category 'Excellent Product Design 2021' for its outstanding design.

– Case made of stainless steel, polished
– Captive pilot's bezel with minute ratcheting
– Sapphire crystal glass
– Transparent case back made of sapphire crystal glass
– Water-resistant and pressure-resistant to 20 bar
– Resistant to low pressure

- **104 St Sa I W:**
  – White glossy dial
- **104 St Sa I A:**
  – Anthracite electroplated dial with sunburst decoration
- **104 St Sa I B:**
  – Dark-blue dial with sunburst decoration


Sinn
MON 8
Automatik
Made in Germany

104 St Sa A – grey canvas leather strap.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

104 St Sa A – solid stainless steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

104 St Sa A – black silicone strap with integrated case. Two-year guarantee, see page 164.
(Case diameter: 41 mm)

104 St Sa A – luminous design.

Back view of the **104 St Sa A**.

Series 104 St Sa A
The classic pilot watch

Virtually perfect readability is also guaranteed by the series with the Arabic numerals set against a matt black dial. Optimum lucidity of the day, day of the week and time is ensured by the clearly structured design. A special feature is the captive pilot's bezel with minute ratcheting, which can be rotated on both sides. The crystal made of sapphire crystal is set in a polished stainless-steel case. The glass back is also made of sapphire crystal, allowing the delicate work of the mechanical movement to be admired in all its intricacy.

- Case made of stainless steel, polished
- Matt black dial
- Captive pilot's bezel with minute ratcheting
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Water-resistant and pressure-resistant to 20 bar
- Resistant to low pressure

Large picture:
104 St Sa A – fine-link bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)


Sinn
UTC
Made in Germany
Sinn
Made in Germany
Sinn

105 St Sa W – black cowhide leather strap with contrasting stitching.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

reddot winner 2021

105 St Sa UTC – black textile strap.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

105 St Sa UTC W – solid stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

105 St Sa – solid stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

Series 105 St Sa

Sporty watches with multifunctional rotating bezel.

- Case made of stainless steel, bead-blasted
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Water-resistant and pressure-resistant to 20 bar
- Resistant to low pressure

- **105 St Sa**:
  - Captive multifunctional rotating bezel with minute ratcheting and Black Hard Coating on a TEGIMENT Technology basis
  - Second time zone on a 12-hour basis
- **105 St Sa UTC**:
  - Captive rotating bezel with 24-hour ratcheting and Black Hard Coating on a TEGIMENT Technology basis
  - Second time zone on a 24-hour basis
- **105 St Sa and 105 St Sa UTC**:
  - Matt black dial
- **105 St Sa W and 105 St Sa UTC W**:
  - Matt white dial

Large picture:
105 St Sa UTC – black cowhide leather strap with contrasting stitching.
105 St Sa W – black silicone strap with toothed buckle.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)


Sinn
SZ01
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SZ01
AUTOMATIK

140 St S – solid bracelet.
Case made of stainless steel with a Black Hard Coating. Three-year guarantee, see page 164.
(Case diameter: 44 mm)

140 St – case made of bead-blasted stainless steel. Solid bracelet.
Three-year guarantee, see page 164.
(Case diameter: 44 mm)

140 St S – black cowhide strap. Case made of stainless steel with a Black Hard Coating.
Three-year guarantee, see page 164.
(Case diameter: 44 mm)

Back view of the **140 St S.**

140 St S – case with a Black Hard Coating on a TEGIMENT Technology basis.

140 St – bead-blasted case.

Large picture:
140 St S – black cowhide strap.
140 St – solid bracelet.
Three-year guarantee, see page 164.
(Case diameter: 44 mm)

Series 140
The space chronograph

We have subjected the 140 model series to further technical development. It incorporates the SINN SZ01 chronograph movement. The most striking feature of the design is the centre-mounted jump 60-minute stop hand.

- SINN chronograph movement SZ01
- Centre-mounted 60-minute stopwatch hand
- Case made of stainless steel, bead-blasted
- Case made with TEGIMENT Technology and therefore especially scratch-resistant
- Nickel-free case back without TEGIMENT Technology
- Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
- Sapphire crystal glass
- Interior pilot's bezel
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

• **140 St S**:
  - Case with a Black Hard Coating on a TEGIMENT Technology basis

Fascination of space travel

Astronaut scientist Dr Ernst Messerschmid on the D1 Spacelab Mission

Even people who have never orbited like a real astronaut are fascinated by the idea of space flight. The aerospace industry has already created a multitude of benefits in telecommunication, navigation, earth observation, space research and many other technological fields. But the biggest benefit may be the fact that more and more people are beginning to see our world the way astronauts do – as a small, beautiful planet, an island in the vast and unfriendly reaches of the galaxy with only a limited amount of space for its inhabitants who live in constant conflict with Mother Nature.

From the early beginnings of space flight to today, only a few people have enjoyed the privilege of actually going there. The first Europeans received the opportunity to live and work in space as "astronaut scientists" with the development of the Spacelab system, which began immediately following the successful Apollo missions of the USA in the early 1970s. This was Europe's first access to manned space flight. Just two years after Ulf Merbold participated in the first joint NASA and ESA Spacelab mission, Reinhard Furrer and I were selected to orbit the earth for a week and conduct some 100 scientific experiments as part of the D1 German Spacelab mission.

When Reinhard Furrer and I – both of us were physicists – began our astronaut training in early 1983, we were breaking new ground at the German Aerospace Centre, at NASA and in the public's perception. Previously there had been only American astronauts and Russian cosmonauts, and most of them were test pilots, a few were engineers, but hardly any were scientists. Up until then, science had taken a back seat – at least, it was not considered particularly important to the struggles the two superpowers were engaged in, both on earth and in space.

When the Europeans expressed interest in participating in the development of the American space shuttle in the 1970s, they were initially given the cold shoulder. All that was offered to them was a small module considered by many to be of little importance, which the shuttle could also have flown without – namely the Spacelab, built by European engineers, most of them Germans. If we had not hailed from the country of Hermann Oberth, Werner von Braun and other important pioneers of space flight, we would have had even more trouble being accepted by our more powerful partners.

The goal of the D1 Spacelab Mission STS-61A, which lasted from 30 October to 6 November 1985, was to conduct a variety of scientific experiments in diverse fields, e.g. fluid physics, materials research, process engineering, medicine and biology. The experiments were designed to be conducted in microgravity, so they could only be carried out in the weightlessness of space. Previously unexplored effects on fluid-mechanic interfaces and solidification responses were investigated, and chemical reactions in the various objects under investigation were analysed, including the effects of weightlessness on the human body and the behaviour of various materials, such as liquids, alloys, composites and crystals.

Astronaut scientist Dr Ernst Messerschmid and Dr Reinhard Furrer (see picture to the right) were crew members on the first German Spacelab Mission D1 and received the Federal Service Cross First Class.

Shortly before the D1 mission, Prof. Reinhard Furrer bought his SINN model 140 S and used it to prove primarily that automatic watches can be wound through movement even under weightless conditions. Furrer died during an air show in Berlin on 9 September 1995.

On the D1 mission in 1985, we had atomic clocks on board in order to better understand the fundamentals for subsequent, satellite-supported navigation systems such as GPS and the European Galileo satellite system. Also on board was my colleague Reinhard Furrer, who had previously piloted one-engine planes across the Atlantic. During this time, he had become acquainted with chronographs and astronavigation, which at least explains why he took his chronograph with him on the space flight. It was a SINN 140 S chronograph, an automatic watch that performed flawlessly in space. I left my own chronograph at home, where it was promptly stolen from my home during my extra-planetary journey. Reinhard Furrer's attachment to this seemingly outdated technology was not just emotional – and after all, who wouldn't want to take along the useful tools they have come to love when setting out on an expedition? In addition to this understandable motivation, he knew that these chronographs provide reliable service in various situations pilots often face, where they must take action in real time, under stress, and can't afford to make any mistakes (Apollo 13: "Failure is not an option"). They have also been technically improved upon and increasingly also fulfil operational and aesthetic needs in ways that would not be possible with the kind of technical progress that sometimes results from basic research conducted as part of the space programme.

Prof. Ernst Messerschmid

Ernst Messerschmid was born in Reutlingen in 1945. After studying physics in Tübingen and Bonn and earning his doctorate, he joined the German Aerospace Centre (Deutsche Forschungsanstalt für Luft- und Raumfahrt, DLR) in Oberpfaffenhofen in 1978. In 1983, Messerschmid was named an astronaut scientist, and he flew aboard the American space shuttle Challenger in 1985 on the week-long D1 Spacelab mission. In 1986, he was given a full professorship and appointed director of the Institute for Aerospace Systems at the University of Stuttgart, where he also served as dean of the aerospace technology faculty from 1990 to 1992 and pro-rector for research and technology from 1996 to 1998. From 2000 to 2005, he took a leave of absence from the University of Stuttgart to serve as head of the European astronaut centre of the European Space Agency in Cologne. While there, his responsibilities included selecting and training European astronauts for missions on board the International Space Station, ISS. His current research focuses on developing future space stations as well as strategies and scenarios for space missions to the moon, nearby asteroids and Mars.

Major publications and awards:
Messerschmid has published more than 150 scientific papers, authored or co-authored ten books and holds German and European patents. He has received the Federal Service Cross First Class, the medal of honour of the state of Baden-Württemberg, the NASA Space Flight Medal and Hermann Oberth Medal in Gold. He is also a member of the German Academy for Sciences Leopoldina, the German Academy of Engineering Sciences and the International Academy of Astronautics, among other organisations.


TACHY
DIAPAL
Sinn
Ar
Made in Germany
2580
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144 St DIAPAL – black cowhide strap.
Five-year guarantee, see page 164.
(Case diameter: 41 mm)

144 St Sa – black silicone strap.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

144 St Sa – solid bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

144 St DIAPAL – back view.

144 St DIAPAL – side views.

Series 144
The sports chronograph

The 144 is one of our company's traditional watches. And the fact that it is still available shows how immensely popular it is. In the interests of visual perfection, we have revised the typography of the dials and the internal tachymeter and pulsometer scales on all watches.

– Case made of stainless steel, bead-blasted
– Sapphire crystal glass
– Transparent case back made of sapphire crystal glass
– Tachymeter and pulsometer scale inside
– Water-resistant and pressure-resistant to 20 bar
– Resistant to low pressure

- **144 St DIAPAL**:
  – DIAPAL – the lubricant-free anchor escapement
  – Column wheel chronograph, exquisitley decorated
  – Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
  – Functionally reliable from –45 °C up to +80 °C
  – Second time zone on 12-hour basis
- **144 St Sa**:
  – Ar-Dehumidifying Technology available as an option

Large picture:
144 St DIAPAL – solid bracelet.
Five-year guarantee, see page 164.
(Case diameter: 41 mm)


HW
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MON 8
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HELGOLÄNDER
BUCHT
ELBE
APPROACH
Nord

240 St – solid bracelet.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)

240 St GZ – black cowhide strap with integrated case.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)

240 St – dark-brown vintage-look cowhide strap.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)

240 St – luminous design.

240 St – back view.

Large picture:
240 St GZ – bead-blasted stainless-steel case and identical solid bracelet.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)

Series 240 St
The sporty watch

Key functions and clarity are the all-important features of these watches. Optimum readability is guaranteed by the luminous hands and indices – which are made full use of in the 240 St GZ. For this watch was designed for sailors and water sports enthusiasts, who know the true importance of the weather and tides. Checking the local tide table to work out the current tidal range is just as essential as keeping an eye on the inner tide bezel. This can be used to read the relative water level of a location in terms of current tide, i.e. the time until the next high tide.

– Case made of stainless steel, bead-blasted
– Sapphire crystal glass
– Water-resistant and pressure-resistant to 10 bar
– Resistant to low pressure

- **240 St GZ**:
  – Inner tide bezel showing high and low tide
  – Dark blue dial
- **240 St**:
  – Inner pilot's bezel
  – Black dial


Sinn
FLIEGER
KLASSIK
Made in Germany

356 PILOT Classic Anniversary – sand-coloured strap made from nubuck boar leather.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

356 PILOT Classic Anniversary – grey strap made from nubuck boar leather.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

The 356 PILOT Classic Anniversary comes in a fine case with a grey and sand-coloured strap made from nubuck boar leather, band replacement tool, spare spring bars and a brochure.

The exquisitely decorated movement with the blued screws is clearly visible through the sapphire crystal glass.

Side view of the **356 PILOT Classic Anniversary**.

356 PILOT Classic Anniversary
The classic chronograph with bicompax display

The 356 PILOT Classic Anniversary model is the ideal watch to celebrate the 25th anniversary of this model series in style. For the first time in this model series, we have added the unmistakable "FLIEGER KLASSIK" lettering to the dial at six o'clock as a special tribute. As a counterpart to this, the SINN logo was applied as an appliqué at 12 o'clock.
Another novelty is the bicompax arrangement of the silver-matt counter circles. They correspond harmoniously with the anthracite galvanised dial to create a harmonious overall look. For visual perfection, the hands for the hours, minutes and stop seconds are rhodium-plated and coated with luminous colour, while the small seconds and 30-minute stop catch the eye thanks to the silk-matt anthracite design. As a useful function, we have provided the dial with a fine minute scale, divided into quarter seconds for quick short-term measurements.

- Limited to 500 pieces
- Case made of stainless steel, satinised
- Anthracite electroplated dial
- Scale for displaying a quarter of a second for short-time measurement
- Crystal and transparent case back made of sapphire crystal glass
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

Large picture:
356 PILOT Classic Anniversary – grey strap made from nubuck boar leather.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)


Sinn
FLIEGER
KLASSIK
Made in Germany
Sinn
FLIEGER
KLASSIK
Made in Germany

356 PILOT Classic AS E – sand-coloured strap made from nubuck boar leather.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

356 PILOT Classic W – grey strap made from nubuck boar leather.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

356 PILOT – stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

Back and side view.

Series 356 PILOT

The classic chronograph with acrylic glass

Bead-blasted stainless steel case, shock-proof acrylic glass and solid case back: Three features of the 356 PILOT model and the anniversary models 356 PILOT Classic AS E and 356 PILOT Classic W with bicompax arrangement build a bridge to the founding model 356 PILOT from 1998.

– Case made of stainless steel, bead-blasted
– Shock-proof acrylic glass
– Solid back
– Water-resistant and pressure-resistant up to 10 bar
– Resistant to low pressure

- **356 PILOT Classic AS E**:
  – Matt-silk dial with color gradient from anthracite to black
- **356 PILOT Classic W**:
  – Matt-silk white dial
- **356 PILOT**:
  – Matt black dial

Large picture:
356 PILOT Classic AS E – solid stainless steel bracelet.
356 PILOT Classic W – grey strap made from nubuck boar leather.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)


Sinn
MON 8
FLIEGER

356 Sa PILOT III – grey canvas leather strap.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

356 Sa PILOT II – fine-link bracelet.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

356 Sa PILOT – cowhide leather strap with contrasting stitching.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

The exquisitely decorated movement with the blued screws is clearly visible through the sapphire crystal glass.

Side view of the **356 Sa PILOT**.

Series 356
The traditional chronograph

At a modest 38.5 mm in diameter, the case boasts a fine satinised finish and exudes outstanding, sophisticated functionality. The anti-reflective coating on both sides of the highly curved sapphire crystal glass facilitates accurate reading of the dial even under extreme lighting conditions. In terms of design, the appeal of this successful series has been further enhanced by the attractive guilloché, silver electroplated dial of the 356 Sa PILOT III, the fine, exquisitely decorated movement, the tasteful finish and the blued screws adorning the precision mechanics.

- Case made of stainless steel, satinised
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Available with a bead-blasted case, acrylic in the crystal and stainless-steel case back
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

- **356 Sa PILOT II**:
  - Copper electroplated guilloché dial
- **356 Sa PILOT III**:
  - Silver electroplated guilloché dial

Large picture:
356 Sa PILOT III – black cowhide strap featuring alligator embossing and contrasting white stitching.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)


Sinn
MON 8
FLIEGER
Ar
Made in Germany

358 Sa PILOT DS – fine-link satinised stainless-steel bracelet.
Three-year guarantee, see page 164.
(Case diameter: 42 mm)

358 Sa PILOT B E – black silicone strap.
Three-year guarantee, see page 164.
(Case diameter: 42 mm)

358 Sa PILOT B E – dark-brown vintage-look cowhide strap.
Three-year guarantee, see page 164.
(Case diameter: 42 mm)

Back view of the **358 Sa PILOT DS** – the anti-reflective sapphire crystal glass provides an insight into the movement inside.

Side views of the **358 Sa PILOT DS**.

Series 358 Sa PILOT
The traditional chronograph

In keeping with the design of traditional instrumental chronographs, these watches captivate with their clarity, functionality and elegance. In addition to being 42 mm in diameter, the highly curved crystal characterises the overall appearance. Sapphire crystal is used for both the crystal and the glass back. Ar-Dehumidifying Technology ensures greater functional reliability and freedom from fogging. The watches feature a date and weekday display, with two attractive dials to choose from.

- Case made of stainless steel, satinised
- Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

- **358 Sa PILOT DS**:
  - Dial with decorative grinding
- **358 Sa PILOT B E**:
  - Dark-blue dial, with sunburst decoration
  - Ivory-coloured coating on the indices, hands and numerals

Large picture:
358 Sa PILOT DS – grey canvas leather strap.
Three-year guarantee, see page 164.
(Case diameter: 42 mm)


Sinn
DIADAL
Made in Germany

358 DIAPAL – fine-link satinised stainless-steel bracelet.
Five-year guarantee, see page 164.
(Case diameter: 42 mm)

358 Sa PILOT – cowhide strap with alligator embossing and contrasting stitching.
Three-year guarantee, see page 164.
(Case diameter: 42 mm)

358 Sa PILOT – silicone strap.
Three-year guarantee, see page 164.
(Case diameter: 42 mm)

Back view of the **358 DIAPAL** – the anti-reflective sapphire crystal glass provides an insight into the movement inside.

At 15 mm thick, the **358** fits the wrist ergonomically and is also fitted with an integrated drying capsule.

Large picture:
358 DIAPAL – black cowhide strap with alligator embossing. Five-year guarantee, see page 164.
(Case diameter: 42 mm)

Series 358
The traditional chronograph

- Case made of stainless steel, satinised
- Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

- **358 DIAPAL**:
  - DIAPAL – the lubricant-free anchor escapement
  - Column wheel chronograph, exquisitley decorated
  - Functionally reliable from –45°C up to +80°C
  - Second time zone on 12-hour basis
  - Date display
  - Anthracite electroplated dial
- **358 Sa PILOT**:
  - Date and day of the week display


Sinn

556 I RS – black vintage-look cowhide strap.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

556 A – cowhide strap with alligator embossing and contrasting stitching.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

556 I – satinised stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

556 I – luminous design.

Back view of the **556 A** and **556 I** – the anti-reflective sapphire crystal glass provides an insight into the movement inside.

Large picture:
556 A RS – satinised stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

Series 556
The elegantly sporty watch

Striking lines, a minimal dial design and clear readability – typical SINN features that clearly demonstrate the relationship the watches in series 556 have with our instrumental pilot watches and navigation cockpit clocks. The focus on the hours, minutes, seconds and date as well as the satinised stainless-steel case emphasise the elegantly sporty appearance. Both the 556 A with matt black dial and Arabic numerals and the 556 I with shiny black dial and indices are fitted with a crystal and a transparent back made of sapphire crystal glass, allowing the delicate mechanical movement to be admired in all its intricacy.

– Case made of stainless steel, satinised
– Sapphire crystal glass
– Transparent case back made of sapphire crystal glass
– Water-resistant and pressure-resistant to 20 bar
– Resistant to low pressure

- **556 A**:
  – Matt black dial
- **556 I**:
  – Glossy black dial
- **556 A RS and 556 I RS**:
  – Second hand in red


Sinn
AUTOMATIK
Made in Germany

556 I B – blue leather strap. The dial has been electroplated blue and finished with a sunburst decoration.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

556 I Mother-of-Pearl S – fine grey Alcantara* strap.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

* Alcantara is a registered trademark of Alcantara S.p.A.

556 I B – sporty solid bracelet in stainless steel. The dial has been electroplated blue and finished with a sunburst decoration.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

556 I B – luminous design.

556 I B – back view.

Series 556
The elegantly sporty watch with mother-of-pearl dial

Striking lines, a minimal dial design and clear readability – typical SINN features that clearly demonstrate the relationship the watches in series 556 have with our instrumental pilot watches and navigation cockpit clocks. The focus on the hours, minutes and seconds underlines the elegantly sporty appearance. With a choice of two different dials, you can customise your 556 to suit the occasion. We think the 556 I Mother-of-Pearl S edition makes a particularly strong masculine statement.

– Appliqués, meticulously attached by hand
– Case made of stainless steel, satinised
– Sapphire crystal glass
– Transparent case back made of sapphire crystal glass
– Water-resistant and pressure-resistant to 20 bar
– Resistant to low pressure

- **556 I B**:
  – Blue electroplated dial, with sunburst decoration
- **556 I Mother-of-Pearl S**:
  – Shimmering black mother-of-pearl dial

Large picture:
556 I B – fine-link stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)


12
6
Sinn
8
DESIGN
AWARD
2022
GERMAN
DESIGN
AWARD
SPECIAL
2022

717 – black vintage-look cowhide strap.
Three-year guarantee, see page 164.
(Case diameter: 45 mm)

717 – black silicone strap.
Three-year guarantee, see page 164.
(Case diameter: 45 mm)

The design and style of the Nabo 17 ZM provided the inspiration for model 717.

717 – luminous design.

717 – back view.

Large picture:
717 – black vintage-look cowhide strap.
Three-year guarantee, see page 164.
(Case diameter: 45 mm)

Model 717
The cockpit wristwatch

Originally designed for the German Luftwaffe's Tornado programme in the late 1970s, the design and style of the Nabo 17 ZM cockpit clock provided the inspiration for model 717. This timepiece also features a central stopwatch display for seconds and minutes in the form of large orange hands, which is created using our time-honoured SINN chronograph movement SZ01. The case houses an pilot's bezel, which can be smoothly operated from the outer diameter of the watch. In keeping with its predecessor, the dial is distinguished by its excellent readability, even in the dark, and thanks to the sapphire crystal glass with anti-reflective coating on both sides, under adverse lighting conditions too. All in all, and at 45 mm in diameter, the 717 cuts a fine figure.

- Winner of the 'Excellent Product Design 2022' at the German Design Award
- Winner of the iF Design Award 2022
- SINN chronograph movement SZ01
- Centre-mounted 60-minute stopwatch hand
- Case made of stainless steel, bead-blasted
- Black Hard Coating on a TEGIMENT Technology basis
- Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
- Sapphire crystal glass
- Pilot's bezel with luminous key mark
- Water-resistant and pressure-resistant to 20 bar
- Resistant to low pressure


Sinn
AUTOMATIK
8
Made in Germany

836 – black vintage-look cowhide strap.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)

836 – black silicone strap.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)

836 – solid stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)

836 – luminous design.

836 – side views.

Model 836

The instrumental watch with Magnetic Field Protection

The 836 combines instrumental functional robustness with sporty, practical design aesthetics. Equipped with hour, minute, second and date displays, this timepiece focuses on the essentials, boasts perfect readability and is extremely comfortable to wear thanks to a height of 10.6 mm. Indices, hour and minute hands coated in luminous white ensure optimum readability even in the dark. Clear design aesthetics and creative details combine to create sporty, practical features. These include the skeletonised hour and minute hands, which are coated in rhodium and matt brushed to create the finest silvery gleam. The light reflections are highly consistent with those of the polished glass rim of the satinised stainless-steel case.

- Case made of stainless steel, satinised/polished
- Case made with TEGIMENT Technology and therefore especially scratch-resistant
- Nickel-free case back, without TEGIMENT Technology
- Magnetic Field Protection up to 100 mT (= 80,000 A/m)
- Sapphire crystal glass
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

Large picture:
836 – black vintage-look cowhide strap.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)


Sinn
UTC
Made in Germany

856 S UTC – black textile strap.
Three-year guarantee, see page 164.
(Case diameter: 40 mm)

856 S – solid bracelet, TEGIMENT Technology and Black Hard Coating.
Three-year guarantee, see page 164.
(Case diameter: 40 mm)

856 – solid bracelet and TEGIMENT Technology.
Three-year guarantee, see page 164.
(Case diameter: 40 mm)

856 UTC – luminous design.

At 11 mm thick, the **856** fits the wrist ergonomically and is also fitted with an integrated drying capsule.

Series 856
The pilot watch with Magnetic Field Protection

Just how functional can a watch be if it focuses on its fundamental purpose? The answer lies, for example, in the design of the dial. This ensures especially clear readability with starkly contrasting hands, indices and numerals against the glare-free black dial. With extremely large numerals for intuitive orientation and accurate reading even in adverse conditions.

- Case made of stainless steel, bead-blasted
- Case made with TEGIMENT Technology and therefore especially scratch-resistant
- Nickel-free case back without TEGIMENT Technology
- Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
- Magnetic Field Protection up to 100 mT (= 80,000 A/m)
- Sapphire crystal glass
- Water-resistant and pressure-resistant to 20 bar
- Resistant to low pressure

- **856 S/856 S UTC**:
  - Black Hard Coating on a TEGIMENT Technology basis
- **856 UTC/856 S UTC**:
  - Second time zone on 24-hour basis

Large picture:
856 UTC – silicone strap.
Three-year guarantee, see page 164.
(Case diameter: 40 mm)


UTC
Sinn
Abflu

857 S UTC – silicone strap.
Three-year guarantee, see page 164.
(Case diameter: 43 mm)

857 S – solid bracelet, TEGIMENT Technology and Black Hard Coating.
Three-year guarantee, see page 164.
(Case diameter: 43 mm)

857 – solid bracelet and TEGIMENT Technology.
Three-year guarantee, see page 164.
(Case diameter: 43 mm)

857 S UTC – luminous design.

Side view of the **857** with a captive pilot's bezel, TEGIMENT Technology and drying capsule.

Series 857

The pilot watch with Magnetic Field Protection and captive rotating bezel

The stainless-steel pilot's bezel with minute ratcheting can be rotated on both sides and, thanks to a special mechanical system, is securely attached to the case.

- Case made of stainless steel, bead-blasted
- Case made with TEGIMENT Technology and therefore especially scratch-resistant
- Nickel-free case back without TEGIMENT Technology
- Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
- Magnetic Field Protection up to 100 mT (= 80,000 A/m)
- Captive pilot's bezel with minute ratcheting
- Sapphire crystal glass
- Water-resistant and pressure-resistant to 20 bar
- Resistant to low pressure

- **857 S/857 S UTC**:
  - Black Hard Coating on a TEGIMENT Technology basis
- **857 UTC/857 S UTC**:
  - Second time zone on 24-hour basis

Large picture:
857 UTC – case with TEGIMENT Technology.
Cowhide strap with integrated case.
Three-year guarantee, see page 164.
(Case diameter: 43 mm)


DIAPAL
Sinn

900 DIAPAL – fine grey Alcantara* strap.
Five-year guarantee, see page 164.
(Case diameter: 44 mm)

900 PILOT – black silicone strap.
Three-year guarantee, see page 164.
(Case diameter: 44 mm)

900 PILOT –brown vintage-look cowhide strap.
Three-year guarantee, see page 164.
(Case diameter: 44 mm)

* Alcantara is a registered trademark of Alcantara S.p.A.

900 DIAPAL – luminous design.

The **900 PILOT** was awarded the "Goldene Unruh" in 2010.

Series 900
The large pilot chronograph

Our pilot watches have been setting functional and technological standards since day one. It is therefore only logical that the 900 series seamlessly follows on from this, while at the same time sporting a contemporary design. The result is a pilot chronograph that meets the highest standards in terms of precision and aesthetics.

- Case made of stainless-steel, satinised
- Case made with TEGIMENT Technology and therefore especially scratch-resistant
- Nickel-free case back without TEGIMENT Technology
- Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
- Second time zone on 24-hour basis
- Magnetic Field Protection up to 100 mT (= 80,000 A/m)
- Sapphire crystal glass
- Water-resistant and pressure-resistant to 20 bar
- Resistant to low pressure

- **900 DIAPAL**:
  - DIAPAL – the lubricant-free anchor escapement
  - Column wheel chronograph, exquisitely decorated
  - Functionally reliable from –45 °C up to +80 °C

Large picture:
900 DIAPAL – solid bracelet.
Five-year guarantee, see page 164.
(Case diameter: 44 mm)


Sinn

903 St HB – shell cordovan strap with contrasting stitching.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

903 St HB – fine-link stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

The **903 St HB** comes in a fine case with a shell cordovan strap with contrasting stitching and a fine-link stainless-steel bracelet, band replacement tool, spare spring bars and a brochure.

903 St HB – luminous design.

The exquisitely decorated movement with the blued screws is clearly visible through the sapphire crystal glass.

Large picture:
903 St HB – fine-link stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

Model 903 St HB
The navigation chronograph

This navigation chronograph is the perfect introduction to a completely redesigned series - as a whole, it operates at what could be considered a unique technical level. We use hybrid ceramic luminous elements for the indices, which are meticulously attached by hand, the number 12 and the hour and minute hands. The result: extreme brightness and perfect readability in the dark. The redesign of the case in once again demonstrates our high level of innovation. It has a bezel that can be smoothly operated from the outer diameter of the watch. The fact that the watch has an impressive water resistance of 20 bar testifies to a feat of engineering that has long distinguished the SINN brand. The crowning glory is the column wheel chronograph movement, which has a power reserve of at least 60 hours when fully wound.

- Limited to 500 pieces
- Dial light blue with sunburst decoration
- Case made of stainless-steel, polished/satinised
- Column wheel chronograph, exquisitely decorated
- Hybrid ceramic luminous elements, meticulously attached by hand
- Sapphire crystal glass and back
- Bezel with logarithmic scale and slide rule function
- Water-resistant and pressure-resistant to 20 bar
- Resistant to low pressure


Sinn
12
MPH
Sinn
12
MPH

903 St B E II – shell cordovan strap with contrasting stitching.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

903 St II – black vintage-look cowhide strap.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)

Hand-applied hybrid ceramic luminescent elements.

903 St B E II – luminous design.

The exquisitely decorated movement with the blued screws is clearly visible through the sapphire crystal glass.

Series 903
The navigation chronograph

The 903 model series is presented in a technically completely revised version. We use hybrid ceramic luminous elements for the indices, which are meticulously attached by hand, the number 12 and the hour and minute hands. The result: extreme brightness and perfect readability in the dark. The redesign of the case has a bezel which can be smoothly operated from the outer diameter of the watch. The impressive water resistance of 20 bar testifies to a feat of engineering that has long shaped the SINN brand.

- Case made of stainless-steel, polished/satinised
- Column wheel chronograph, exquisitely decorated
- Hybrid ceramic luminous elements, meticulously attached by hand
- Crystal and transparent back made of sapphire crystal
- Bezel with logarithmic scale and slide rule function
- Water-resistant and pressure-resistant to 20 bar
- Resistant to low pressure

- **903 St II**:
  - Electroplated black dial with sunburst decoration
- **903 St B E II**:
  - Dark blue dial

Large picture:
903 St B E II – dark brown leather strap.
903 St II – fine-link stainless-steel bracelet.
Two-year guarantee, see page 164. (Case diameter: 41 mm)


Sinn
MADE IN
GERMANY

910 Eintracht – black vintage-look cowhide strap.
Two-year guarantee, see page 164.
(Case diameter: 41.5 mm)

910 Eintracht – fine-link stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41.5 mm)

The watch comes in a fine wooden case with a black vintage-look cowhide strap and fine-link stainless-steel bracelet, a band replacement tool, spare spring bars, an Eschenbach watchmaker's loupe, a care cloth and a brochure.

910 Eintracht – luminous design.

The exquisitely decorated movement with the blued screws is clearly visible through the sapphire crystal glass.

Large picture:
910 Eintracht – fine-link stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41.5 mm)

Model 910 Eintracht

The chronograph for the 125th anniversary of Eintracht Frankfurt.

Sinn Spezialuhren and Eintracht Frankfurt are united by pure passion and genuine dedication to their respective professions. On the one hand, the manufacturer of high-quality mechanical watches that stand for precision and performance. On the other hand, one of the oldest and most successful clubs in Germany with more than 130,000 members and over 50 sports. No wonder that both players inspire their fans with what they do and, above all, how they do it - both locally and far beyond the city limits. Both rely on values such as upholding tradition and continuity at a contemporary level as well as on their deep connection and honest commitment to the Hessian metropolis in which they are based.

- Limited to 500 pieces
- SINN chronograph movement SZ05 with 60-minute stopwatch display
- Visual highlighting of the 45 minutes of playing time per half-time
- Case made of stainless steel, polished/satinised
- Sapphire crystal
- Transparent case back made of sapphire crystal
- Water-resistant and pressure-resistant up to 10 bar
- Resistant to low pressure


EINHEITEN/STUNDE
Sinn
8
SRS

910 SRS – shell cordovan strap with contrasting stitching. Two-year guarantee, see page 164. (Case diameter: 41.5 mm)

910 SRS – black textile strap. Two-year guarantee, see page 164. (Case diameter: 41.5 mm)

910 SRS – black vintage-look cowhide strap. Two-year guarantee, see page 164. (Case diameter: 41.5 mm)

The anti-reflective sapphire crystal glass provides an insight into the fine, exquisitely decorated movement inside.

Detailed view of the complex, blued column wheel which controls the start, stop and reset functions.

Model 910 SRS

The column wheel chronograph with flyback function

The 910 SRS is a particularly stylish watch characterised by sophisticated horological details. For example, the stopwatch also features a flyback chronograph function, which allows the chronograph's hand to be stopped, reset to zero, and restarted by pushing the reset button at 4 o'clock. The advantage of this is accurate time measurement down to the last second of consecutive time intervals. The column wheel chronograph marks another complication of sophisticated craftsmanship in this watch. Extremely complex to produce, it requires the utmost care and precision in assembly. Attached appliqués and polished, shiny chamfers on the counter rings, which correspond harmoniously with the polished glass rim, underline the high-quality aesthetics of this timepiece.

- Case made of stainless steel, satinised/polished
- Column wheel chronograph, exquisitely decorated
- Flyback chronograph function
- Double scale for measuring units per hour (e.g. kilometres)
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Attached appliqués
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

Large picture:
910 SRS – fine-link stainless-steel bracelet. Two-year guarantee, see page 164. (Case diameter: 41.5 mm)

reddot winner 2020

936 – black textile strap.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)

936 – black silicone strap with integrated case.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)

936 – solid stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)

936 – luminous design.

936 – side views.

Model 936

The chronograph with 60-minute stopwatch display

The chronograph 936 is a reliable time measurement instrument equipped with TEGIMENT Technology and Magnetic Field Protection. The dial is designed to greatly increase clarity and readability. The chronograph movement SZ05 was redesigned in house and focuses on the stopwatch minute display with 60-second scale at 3 o'clock and running seconds at 9 o'clock. The advantage of this is that it does away with the necessity of adding stopwatch minutes, as is required with conventional 30-second stopwatch minute displays. The 936 also boasts clear design aesthetics expressed through elegant details such as the skeletonised hour and minute hands – both of which are rhodium coated and matt brushed. The counter rings for the stopwatch minutes and seconds have an iridescent effect, caused by a fine central groove.

- Awarded the Red Dot Award 2020
- SINN movement SZ05 with a 60-second scale for the stopwatch minute
- Case made of stainless steel, satinised/polished
- Nickel-free case back, without TEGIMENT Technology
- Case made with TEGIMENT Technology and therefore especially scratch-resistant
- Magnetic Field Protection up to 100 mT (= 80,000 A/m)
- Sapphire crystal glass
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

Large picture:
936 – black vintage-look cowhide strap.
Two-year guarantee, see page 164.
(Case diameter: 43 mm)


Sinn
FRANKFURT AM MAIN
MON
FEB
MADE IN GERMANY
GERMAN DESIGN AWARD WINNER 2020

HUNTING WATCH 3006 – green silicone strap. Three-year guarantee, see page 164. (Case diameter: 44 mm)

HUNTING WATCH 3006 – olive grey textile strap. Three-year guarantee, see page 164. (Case diameter: 44 mm)

HUNTING WATCH 3006 – fine-link satinised stainless-steel bracelet with TEGIMENT Technology. Three-year guarantee, see page 164. (Case diameter: 44 mm)

HUNTING WATCH 3006 – luminous design.

Side view of the **HUNTING WATCH 3006**: with integrated drying capsule.

Side view of the **HUNTING WATCH 3006**.

Large picture:
HUNTING WATCH 3006 – brown vintage-look cowhide strap. Three-year guarantee, see page 164. (Case diameter: 44 mm)

Model HUNTING WATCH 3006
The chronograph with moonlight display

The HUNTING WATCH 3006 is the first of our watches to feature this type of extraordinary complication. This refers to the moonlight display at 6 o'clock, whereby the hybrid ceramic moon symbol and the hour indices offer maximum luminosity and are therefore very easy to recognise even in the dark. Hunters not only need a clear, open view for a successful hunt; they also need the right light. Hunters refer to the right lighting conditions for stalking as good hunting light. The moonlight display on the HUNTING WATCH 3006 shows when the moon is shining bright enough to see and catch the game.

- Awarded the German Design Award "Excellent Product Design 2020"
- Case made of stainless steel, satinised
- Case made with TEGIMENT Technology and therefore especially scratch-resistant
- Ar-Dehumidifying Technology ensures greater functional reliability and freedom from fogging
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Moonlight display at 6 o'clock
- 24-hour display with integrated day and night display
- Centre-mounted date hand
- Weekday and month display
- Hybrid ceramic luminous elements, meticulously attached by hand
- Water-resistant and pressure-resistant to 20 bar
- Resistant to low pressure

Man and hunting

Hunting played a fundamental role in human history. It was purely by hunting and gathering food that prehistoric human beings ensured their survival. The earliest historical references to the targeted hunting of prey date back to Homo erectus. A valuable source of nutrition, this prey was essential for survival. Hunting thus played a crucial role in the evolution of mankind – and forms one of the most important foundations of human culture.

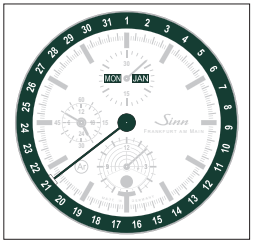
Hunting and conservation go hand in hand

Although hunting was originally all about catching wild animals for food, times have now changed and now it means something different. These days, the more commonplace interpretation of hunting is gamekeeping, a practice which also forms an important and obligatory part of hunting law. Gamekeeping refers to the process of protecting and ensuring the conservation of our wildlife, promoting biological diversity and good health while safeguarding natural resources. With all sorts of conservation measures, such as habitat conservation and habitat networks, hunters are helping to maintain rare ecosystems and creating spaces for threatened species to thrive in our intensively farmed landscapes. So as far as the environment is concerned, hunting is beneficial for the ecosystem, and hunting and conservation are inextricably linked.

A robust, precise instrument for time measurement

With its high-quality features, the HUNTING WATCH 3006 meets the demands of a robust and accurate instrument for time measurement. Particularly due to the SINN technologies used, it is ideal for professional hunting and thus an indispensable piece of hunting equipment. These kinds of technology make the watch remarkably robust and ensure that it has a high degree of mechanical stability. For example, Ar-Dehumidifying Technology ensures greater functional reliability and freedom from fogging. The satinised surface of the stainless-steel case has also been hardened using TEGIMENT Technology, making it especially scratch-resistant. The watch is also pressure-resistant to 20 bar and resistant to low pressure.

Full calendar



The full calendar on the HUNTING WATCH 3006 displays the day of the week and the month, and includes a centre-mounted date hand.

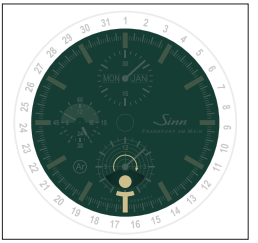
12- and 24-hour display

The seconds hand and the hand for the 24-hour display with integrated day and night separation is located at 9 o'clock in the counter.

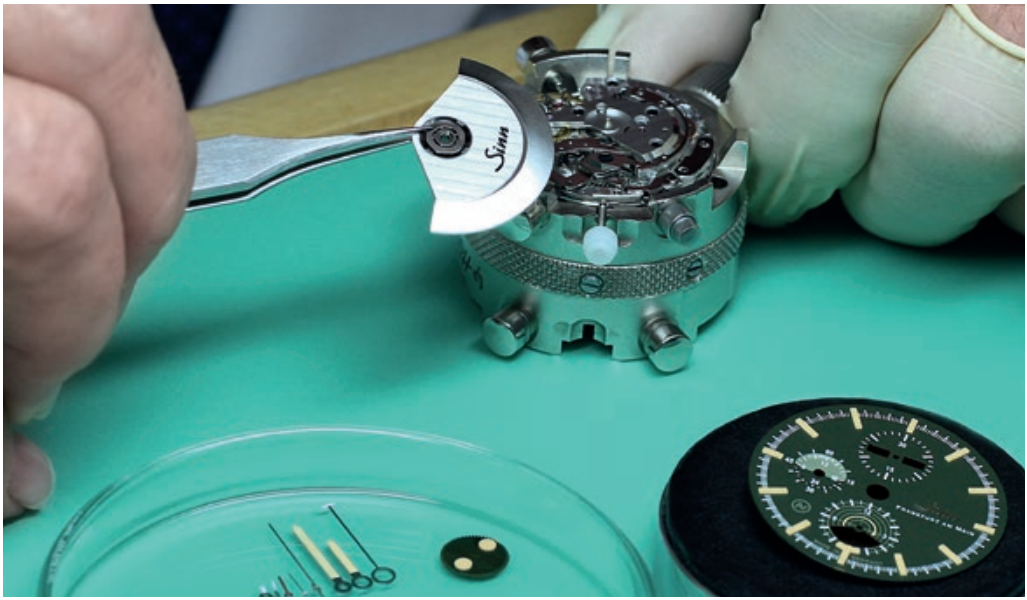
Chronograph/stopwatch

The counter for the stopwatch hour is located at 6 o'clock and the counter for the stopwatch minute is at 12 o'clock. The stopwatch seconds are displayed with the hand from the dial centre.

Moonlight display



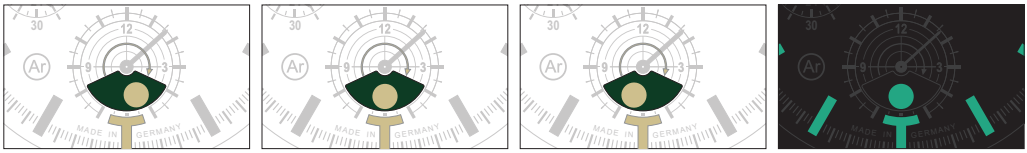
Read the moonlight display directly at 6 o'clock. The curved yellow arrow in the stylised hairline cross indicates the direction in which the moon disc is moving.



The assembly of the winding rotor completes the exquisitely decorated movement of the HUNTING WATCH 3006. The delicate hands, the dial and the moon disc are ready for assembly.

Read the full moon period with the HUNTING WATCH 3006

The best natural light for hunting at night is between three days before and after full moon, although the brightness of the moon does also depend on the weather. The moonlight display on the HUNTING WATCH 3006 allows hunters to optimally gauge when the best hunting light will be, allowing them to instantly read the full moon period at a glance. The curved yellow arrow in the stylised hairline cross indicates the direction in which the moon disc is moving.



Display three days before full moon

Full moon display

Display three days after full moon

Read the moonlight display perfectly in the darkness.

This functionality is supported by the watch's outstanding readability. The indices and the moon symbol are hybrid ceramic luminescent elements.This means that the time and moonlight display can be read perfectly even in the dark.


Sinn
HYDRO
U50
Made in Germany

Mission Timers and Diving Watches

We are the first and so far only company in the watch industry to have our diving watches tested and certified by independent institutes in accordance with European diving equipment standards and also for pressure resistance, water resistance and fogging resistance. After all, diving watches require perfect readability in all light and water conditions as well as extreme robustness. The U50 HYDRO model series fulfils these criteria. These diving timepieces are equipped with HYDRO technology. This means non-reflective readability under water from any angle, absolute resistance to fogging and - thanks to a special oil filling - water-resistant and pressure-resistant up to a diving depth of 5,000 metres (= 500 bar).


Sinn
60
45
30
15
60
45
30

EZM 13.1 – black silicone strap.
Three-year guarantee, see page 164.
(Case diameter: 41 mm)

EZM 3F – black vintage-look cowhide strap.
Three-year guarantee, see page 164.
(Case diameter: 41 mm)

EZM 3 – black textile strap.
Three-year guarantee, see page 164.
(Case diameter: 41 mm)

EZM 13.1 – luminous design.

DNV verifies and certifies the pressure resistance of the EZM 3 and the EZM 13.1 to a diving depth of 500 metres and its temperature resistance and functionality in accordance with the European diving equipment standards EN250 and EN14143.

Models EZM 13.1/EZM 3F/EZM 3

The mission timers with Magnetic Field Protection

- Case made of stainless steel, bead-blasted
- Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
- Magnetic Field Protection up to 100 mT (= 80,000 A/m)
- Functionally reliable from –45°C up to +80°C
- Sapphire crystal glass
- Resistant to low pressure

- **EZM 13.1**:
  - Tested based on European diving equipment standards and certified by an independent institute
  - Water-resistant and pressure-resistant to 50 bar (= 500 m water depth), certified by an independent institute
  - Captive diver's bezel with minute ratcheting
  - SINN movement SZ02 with a 60-minute scale for the stopwatch minute

- **EZM 3F**:
  - Pilot's bezel with minute ratcheting
  - Water-resistant and pressure-resistant to 20 bar

- **EZM 3**:
  - Tested based on European diving equipment standards and certified by an independent institute
  - Water-resistant and pressure-resistant to 50 bar (= 500 m water depth), certified by an independent institute
  - Diver's bezel with minute ratcheting

Large picture:
EZM 13.1 – solid stainless-steel bracelet.
Three-year guarantee, see page 164.
(Case diameter: 41 mm)

reddot award 2019
winner

GERMAN
DESIGN
AWARD
WINNER
2020

EZM 12 – silicone strap with quick-change-system. Three-year guarantee, see page 164. (Case diameter: 44 mm)

EZM 12 – luminous design.

The watch comes in a fine case with a SINN "mission timer" pocketknife, band replacement tool, 6 spare spring bars and a brochure.

EZM 12 – back view.

EZM 12 – side view. A distinct feature: the orange crown with built-in drying capsule for setting the inner rotating bezel.

Model EZM 12

The EZM 12 – designed for the air rescue service

Designed with rescue missions in mind, the EZM 12 is distinguished by its clear displays: PulsRotor, count-up inner rotating bezel and countdown outer rotating bezel. Another special feature is the easy-clean watch and strap, which can be sterilised using various disinfectants. The silicone strap can also be removed without the use of tools. The rotating bezel is removed using the screwdriver on the pocketknife provided.

- Awarded the Red Dot Award 2019 and German Design Award 2020
- Case made of stainless steel, bead-blasted
- Case made with TEGIMENT Technology and therefore especially scratch-resistant
- Nickel-free case back, without TEGIMENT Technology
- Bezel with Black Hard Coating on a TEGIMENT Technology basis
- Ar-Dehumidifying Technology ensures functional reliability and freedom from fogging
- Magnetic Field Protection up to 100 mT (= 80,000 A/m)
- Count-up inner rotating bezel for quick and easy reading of the platinum ten minutes and golden hour
- Countdown outer rotating bezel
- Pulse rotor with PulsRotor scale for measuring heart rate
- Sapphire crystal glass
- Functionally reliable from –45°C up to +80°C
- Water-resistant and pressure-resistant to 20 bar
- Resistant to low pressure

Large picture:
EZM 12 – silicone strap attachable without tools. Three-year guarantee, see page 164. (Case diameter: 44 mm)

Saving lives with the EZM 12

Golden hour – platinum ten minutes:
Sometimes minutes and seconds can mean the difference between life and death.

The aim of modern-day emergency doctors is to save the lives of seriously injured trauma patients, provide them with medical care and transport them to a suitable hospital within the hour. In cases like this, minutes and seconds can mean the difference between life and death. The golden hour is particularly important on a rescue mission: one hour to save a life, 60 minutes, 3,600 seconds. Therefore the clock is constantly ticking in the background, setting the pace for patients in a critical condition.

A rescue mission is never expected, always dramatic and generally involves chaos at the scene of the incident. Weather conditions and possibly even hazardous situations often intensify the situation. The sense of time elapsed and remaining in the golden hour becomes blurred in the stress, chaos and presence of firefighters, police and other first responders. Yet clarity and efficiency are essential. Wherever a rescue helicopter lands, every minute counts. The patient should be stabilised, any bleeding stopped and oxygen supplied all within the first ten minutes. While emergency doctors are trained to treat patients rapidly and expertly, constantly keeping an eye on the time is another matter. Especially since critical decisions are made and life-saving measures performed in the first ten minutes – hence the term platinum ten minutes.

The EZM 12 features three displays specially designed for emergency doctors: pulse rotor, count-up inner rotating bezel and countdown outer rotating bezel.

The golden hour is defined differently in a civil and military context. Often the latter involves remote and inaccessible terrain combined with a real danger of bombardment or on-site explosives. The primary aim here is to evacuate the patient from the danger zone. Only then can medical measures be performed. All soldiers carry a tourniquet (a constricting band) to stop themselves or a comrade from bleeding. First aid should be administered to such a patient within the golden hour. This can be performed by mobile doctors or advanced medical posts, i.e. forward surgical teams that perform life-saving measures and operations far away from a hospital.

From the Alps to the North Sea, from the Eifel to Lusatia: rescue helicopters (RH) are stationed virtually all over Germany to rapidly respond to patients in the event of an emergency – without being caught up in traffic jams or having to overcome geographical obstacles. They are deployed within a 50–70 km radius. Critical care helicopters (CCH), on the other hand, fly patients from hospital to hospital and therefore cover longer distances. The first helicopter bases were built in 1970. The rescue teams – consisting of a pilot, an emergency doctor and paramedics – are on standby seven days a week, 52 weeks a year, from morning till night (if equipped with special night-vision devices). A helicopter is ready to fly in less than two minutes. This saves the rescue workers valuable time, which could mean the difference between life and death. In Germany, the air rescue service is regulated by the individual states, with each state being backed by different organisations. There are currently over 70 helicopter bases in Germany, with most aircraft being deployed for primary missions, i.e. transporting the emergency doctor to the emergency patient to perform life-saving measures and ensure they are stable enough to be transported.

In designing the EZM 12, we were able to draw on the vast experience gained by Dirk Weitzel, emergency doctor at the air rescue base Christoph 23 in Koblenz and serving soldier in the rank of lieutenant colonel (Medical Corps), and Jens Schwietring, long-serving senior helicopter doctor at Christoph 23 and reserve lieutenant colonel (Medical Corps), during many civil and military rescue operations. The aim was to give air rescue workers a handy tool to help them keep an eye on – or ideally beat – the golden hour.

Specially designed as a mission timer for emergency service doctors, the EZM 12 is the perfect tool for monitoring one-hour intervals as it also features two rotating bezels with a countdown and count-up minutes scale. The inner rotating bezel shows the count-up to the platinum ten minutes and golden hour. The outer rotating bezel offers a countdown option, for example for monitoring the periods of effect for certain drugs or the minutes remaining until the rescue helicopter's rotors are started. Reminiscent of the air rescue service, the seconds hand is designed in the shape of a helicopter rotor and features a pulse scale. This enables easy recording of the heart rate every 15 seconds.

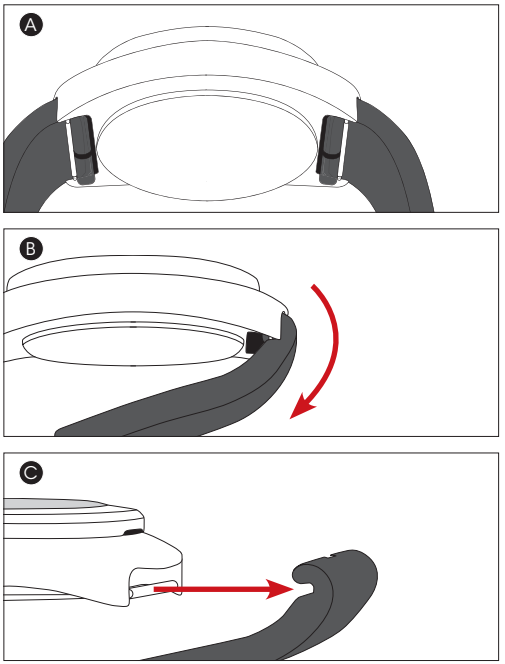
Time is always of the essence in an emergency – but ever-present and tangible thanks to the EZM 12.

Emergency doctor Dirk Weitzel from the air rescue base in Koblenz and the EZM 12 responding to an emergency in the rescue helicopter.

Easy to clean and sterilise

A special feature of the EZM 12 is the easy-clean strap and rotating bezel, which can be quickly and easily removed for cleaning and sterilisation. Each component can be cleaned with disinfectants containing ethanol, propan-2-ol, propan-1-ol and N-alkyl aminopropyl glycine, such as Bacillol® 30 Foam. The silicone strap can also be removed without the use of tools. The rotating bezel is easily removed using the large screwdriver on the pocketknife provided.

Removing the strap

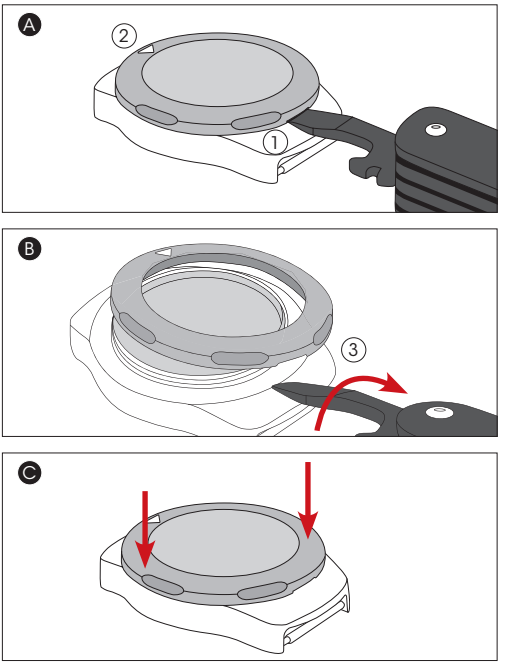


Ⓐ Take off the EZM 12 to remove the strap. To prevent losing the watch, the strap cannot be removed while it is on your wrist.

Ⓑ Bend one side of the silicone strap downwards towards the case back.

Ⓒ Pull this side of the silicone strap outwards towards the side. Do the same for the other side of the silicone strap. To attach the strap, repeat the process in reverse order.

Removing the outer rotating bezel



Ⓐ Insert the large screwdriver on the pocketknife provided bevelled side up into the recess ① of the outer rotating bezel, directly opposite the triangular mark ②. Or use another suitable tool.

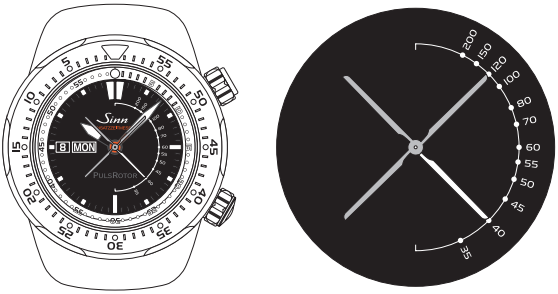
Ⓑ Turn the screwdriver ③. This will cause the outer rotating bezel to detach from the case.

Ⓒ To attach the outer rotating bezel to the case, place it back on the case and press down with both thumbs until you feel and hear it click into place. Finally, check to make sure it can easily be rotated.

Key displays at a glance

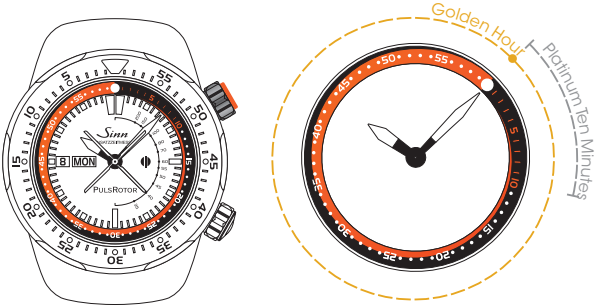
Designed with rescue missions in mind, the EZM 12 is distinguished by its three clear displays: PulsRotor, count-up inner rotating bezel and countdown outer rotating bezel.These three functions enable critical times to be measured and monitored.

The PulsRotor



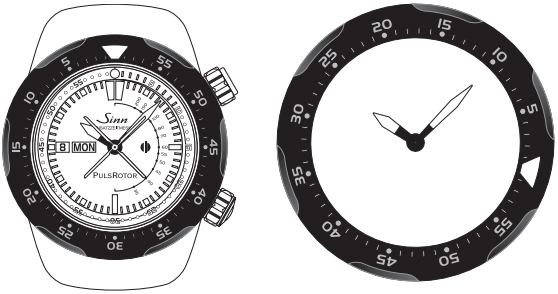
The PulsRotor is used to quickly record the pulse rate. Wait until one of the four rotor blades reaches the beginning of the pulse rotor scale (at 12 o'clock). Count 15 beats and on the 15th beat read the pulse rate in beats per minute on the PulsRotor scale. The white rotor blade corresponds to the seconds hand on a standard three-hand watch and also serves as a stop-seconds function for setting the time with to-the-second precision.

The count-up inner rotating bezel



The inner rotating bezel is for monitoring the platinum ten minutes (orange minutes) and golden hour (white minutes on black-running-into-orange background). On being alerted, the crown is used to set the starter mark on the inner rotating bezel to 2 o'clock on the minutes hand, allowing you to keep a close eye on the race against time and for life.

The countdown outer rotating bezel



The outer rotating bezel is designed as a countdown rotating bezel. This can be used for example for keeping track of the time remaining until the helicopter rotors start or for monitoring the time it takes for medication to take effect. The remaining time (e.g. 10 min.) is set on the minutes hand. Once the minutes hand reaches the triangular mark, the preset time has elapsed.


Sinn
MON 8
Ar
Sinn
MON 8
ARKTIS

206 ARKTIS II: solid stainless-steel bracelet.
Three-year guarantee, see page 164.
(Case diameter: 43 mm)

206 ARKTIS II: blue silicone strap.
Three-year guarantee, see page 164.
(Case diameter: 43 mm)

206 St Ar: black vintage-look cowhide strap.
(The leather strap is not suitable for diving.)
Three-year guarantee, see page 164.
(Case diameter: 43 mm)

206 ARKTIS II – luminous design.

DNV verifies and certifies the pressure resistance of our 206 series to a diving depth of 300 metres and its temperature resistance and functionality in accordance with the European diving equipment standards EN250 and EN14143.

Large picture:
206 St Ar: silicone strap.
206 ARKTIS II: blue cowhide strap with alligator embossing and contrasting stitching.
(The leather strap is not suitable for diving.)
Three-year guarantee, see page 164.
(Case diameter: 43 mm)

Series 206
A contemporary take on the traditional diving chronograph

Unveiled in 1999, the 203 ARKTIS was the first diving chronograph to feature Temperature Resistance Technology. To mark its 20th anniversary in 2019, we have developed the 206 ARKTIS II featuring a blue dial. The 206 St Ar with its black dial makes reference to the 203 St and 203 Ti Ar, in which Ar-Dehumidifying Technology was first used in 1995.

- Case made of stainless steel, polished/satinised
- Tested based on European diving equipment standards and certified by an independent institute
- Water-resistant and pressure-resistant to 30 bar (= 300 m water depth), certified by an independent institute
- Ar-Dehumidifying Technology ensures greater functional reliability and freedom from fogging
- Captive diver's bezel with minute ratcheting
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Resistant to low pressure

- **206 ARKTIS II**:
  - Electroplated blue dial, with sunburst decoration
  - Functionally reliable from –45°C up to +80°C

- **206 St Ar**:
  - Electroplated black dial


Sinn
T50
AUTOMATIK
500 m / 50 bar
Sinn
T50
AUTOMATIK
500 m / 50 bar

T50 GBDR – solid titanium bracelet.
Three-year guarantee, see page 164.
(Case diameter: 41 mm)

T50 – black textile strap.
Three-year guarantee, see page 164.
(Case diameter: 41 mm)

DNV

TEST CERTIFICATE

Certificate No:
A17T172-26

Particulars of Manufacturer

Manufacturer: **Sinn Spezialuhren zu Frankfurt am Main**
Adress: **Wilhelm-Fay-Straße 21, 65936 Frankfurt am Main, Germany**

This is to certify:

That for the diving watch type line: **SINN T50**
representing the list of serial nos: **1052.0001 - 1052.2500**

5 diving watches have been tested on basis of the relevant requirements of:
DNV GL Rules for Classification of Underwater Technology, DNVGL RU UWT,
Diving apparatus: Open-circuit self-contained compressed air diving apparatus EN250:2014,
Self-contained re-breathing diving apparatus: EN14143:2013.

Temperature resistance and functional testing
The proper function of the watches could be determined directly after 3 hours of conditioning at -20°C as well as at +70°C and 95% relative humidity, respectively. Examinations were carried out in accordance with the requirements of the European standards EN250:2014 and EN14143:2003, as applicable to the EU Type-Examination of diving apparatus and were performed at the Zentrum für Sicherheitstechnik of the BG Bau in Hasn, Germany, as confirmed by test report no. 21-1-0220-1, dated on 2022-01-27.

External pressure testing
Hydraulic pressure tests have been performed under supervision of an authorized representative of DNV using officially calibrated pressure gauges on 2021-12-07. Testing was carried out as stated below.

Test pressure / Corresponding water depth:	**50 bar, 63bar**	/	**500m**
Cycles x Holding time:	**1 x 1h, 1 x 0.25h**		
Test media:	**Fresh water**		

After pressure testing, no watch case deformations could be noticed. The proper function of the watches has been determined and a subsequently performed examination proofed the leak tightness of the tested specimen during the pressure test.

Issued at **Hamburg, Germany** on **2022-02-11**

for **DNV**
Digitally Signed By:
Hinz, Stephan
Location: Hamburg, Germany
Signing Date: 11.02.2022

Dr.-Ing. Stephan Hinz
Inspection Engineer and Surveyor for Pressure & Underwater Technology

Stamp: This document has been digitally signed and will therefore not have handwritten signatures.

Form code: UWT DIVE1.en Revision: 2021-09 www.dnv.com/ Page 1 of 1

DNV verifies and certifies the pressure resistance of our models **T50 GBDR** and **T50** to a diving depth of 500 metres and its temperature resistance and functionality in accordance with the European diving equipment standards EN250 and EN14143.

T50 GBDR – luminous design.

T50 GBDR – back view.

Large picture:
T50 – solid titanium bracelet.
T50 GBDR – grey silicone strap.
Three-year guarantee, see page 164.
(Case diameter: 41 mm)

Model T50 GBDR and T50
The diving watch with Captive Safety Bezel

The bezel of the T50 GBDR is another impressive demonstration of our extensive expertise in the field of metallurgy. For this interesting timepiece, we are using the patended bronze alloy Goldbronze 125 developed by ourselfs.

- Case made of high-strength titanium, bead-blasted
- Tested based on European diving equipment standards and certified by an independent institute
- Water-resistant and pressure-resistant to 50 bar (= 500 m water depth), certified by an independent institute
- Captive diver's bezel with guard to prevent accidental misadjustment
- Colour-differentiated luminous paint for minute hand, second hand and key mark on the bezel for clear reading of set time
- Crown at 4 o'clock to prevent pressure on the back of the hand
- Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
- Sapphire crystal glass
- Resistant to low pressure

- **T50 GBDR**:
  - Diver's bezel made of Goldbronze 125, bead-blasted
- **T50**:
  - Diver's bezel with TEGIMENT Technology and therefore especially scratch-resistant


Sinn
U1
AUTOMATIK
8

U1 B – solid stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 44 mm)

U1 SDR – red silicone strap. Diver's bezel with Black Hard Coating on a TEGIMENT Technology basis. Two-year guarantee, see page 164.
(Case diameter: 44 mm)

U1 – black silicone strap.
Two-year guarantee, see page 164.
(Case diameter: 44 mm)

U1 – luminous design.

DNV verifies and certifies the pressure resistance of our U1 series to a diving depth of 1,000 metres and its temperature resistance and functionality in accordance with the European diving equipment standards EN250 and EN14143.

Series U1

The diving watch made of German Submarine Steel

Clear readability thanks to a striking, distinctive design. Easily adjustable rotating bezel, even when wearing gloves. Robust, water-resistant and pressure-resistant.

- Case and crown made of high-strength, seawater-resistant German Submarine Steel
- Tested based on European diving equipment standards and certified by an independent institute
- Water-resistant and pressure-resistant to 100 bar (= 1,000 m water depth), tested and certified by an independent institute
- Diver's bezel made with TEGIMENT Technology and therefore especially scratch-resistant
- Captive diver's bezel with minute ratcheting
- Sapphire crystal glass
- Resistant to low pressure

- **U1 SDR**:
  - Diver's bezel with Black Hard Coating on a TEGIMENT Technology basis
- **U1 B**:
  - Matt-blue dial

Large picture:
U1 B – blue silicone strap.
Two-year guarantee, see page 164.
(Case diameter: 44 mm)


Sinn
U1
AUTOMATIK
Sinn
U1
AUTOMATIK
Sinn

U1 S – red silicone strap. Case and captive diver's bezel with Black Hard Coating on a TEGIMENT Technology basis.
Two-year guarantee, see page 164.
(Case diameter: 44 mm)

U1 S E – black textile strap.
Two-year guarantee, see page 164.
(Case diameter: 44 mm)

U1 S E – brown vintage-look cowhide strap
(The leather strap is not suitable for diving).
Two-year guarantee, see page 164.
(Case diameter: 44 mm)

U1 S – luminous design.

DNV verifies and certifies the pressure resistance of our U1 S series to a diving depth of 1,000 metres and its temperature resistance and functionality in accordance with the European diving equipment standards EN250 and EN14143.

Series U1 S

The diving watch made of German Submarine Steel

The U1 S and the U1 S E are two attractive versions of one of our most popular diver's watches, the U1. As the U1 S, the watch comes with an all-over Black Hard Coating on a TEGIMENT Technology basis, which further highlights its design. The U1 S E also features distinctive colouring, with a striking combination of high-quality Black Hard Coating and ivory-coloured accents. This vintage-style colour scheme makes for an eye-catching contrast on this watch.

- Case and crown made of high-strength, seawater-resistant German Submarine Steel
- Tested based on European diving equipment standards and certified by an independent institute
- Water-resistant and pressure-resistant to 100 bar (= 1,000 m water depth), certified by an independent institute
- Captive diver's bezel with minute ratcheting
- Black Hard Coating on a TEGIMENT Technology basis
- Sapphire crystal glass
- Resistant to low pressure

U1 S E:
- Ivory-coloured coating on the indices, hands and numerals

Large picture:
U1 S – solid stainless-steel bracelet.
U1 S E – black silicone strap.
Two-year guarantee, see page 164.
(Case diameter: 44 mm)


Sinn
U2
2000 m/200 bar

U2 (EZM 5) – silicone strap.
Three-year guarantee, see page 164.
(Case diameter: 44 mm)

U2 SDR (EZM 5) – solid stainless-steel bracelet.
Diver's bezel with Black Hard Coating on a TEGIMENT Technology basis.
Three-year guarantee, see page 164.
(Case diameter: 44 mm)

U2 S (EZM 5) – solid stainless-steel bracelet, with Black Hard Coating on a TEGIMENT Technology basis.
Three-year guarantee, see page 164.
(Case diameter: 44 mm)

U2 (EZM 5) – luminous design.

DNV verifies and certifies the pressure resistance of our U2 (EZM 5) series to a diving depth of 2,000 metres and its temperature resistance and functionality in accordance with the European diving equipment standards EN250 and EN14143.

Series U2 (EZM 5)

The mission timer made of German Submarine Steel

The U2 is a professional mission timer – not least due to the fact that it is made of genuine German Submarine Steel, a material with extreme seawater resistance and the highest level of non-magnetic properties.

- Case and crown made of high-strength, seawater-resistant German Submarine Steel
- Tested based on European diving equipment standards and certified by an independent institute
- Water-resistant and pressure-resistant to 200 bar (= 2,000 m water depth), certified by an independent institute
- Diver's bezel made with TEGIMENT Technology and therefore especially scratch-resistant
- Captive diver's bezel with minute ratcheting
- Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
- Functionally reliable from –45°C up to +80°C
- Sapphire crystal glass
- Second time zone on 24-hour basis
- Resistant to low pressure

• **U2 SDR (EZM 5)**:
  - Diver's bezel with Black Hard Coating on a TEGIMENT Technology basis

• **U2 S (EZM 5)**:
  - Case made with Black Hard Coating on a TEGIMENT Technology basis

Large picture:
U2 S (EZM 5) – silicone strap.
Three-year guarantee, see page 164.
(Case diameter: 44 mm)


Sinn
U50
AUTOMATIK
Sinn
U50
AUTOMATIK

U50 S L – solid stainless-steel bracelet and Black Hard Coating on a TEGIMENT Technology basis. Two-year guarantee, see page 164. (Case diameter: 41 mm)

U50 S L – black silicone strap. Two-year guarantee, see page 164. (Case diameter: 41 mm)


DNV

TEST CERTIFICATE

Certificate No:
A1378874-3E

Particulars of Manufacturer

Manufacturer:	**Sinn Spezialuhren zu Frankfurt am Main**
Adress:	**Wilhelm-Fay-Straße 21, 65936 Frankfurt am Main, Germany**

This is to certify:

That for the diving watch type line:	**SINN U50**
representing the lot of serial nos:	**1050.7501 - 1050.10000**

5 diving watches have been tested on basis of the relevant requirements of:
DNV GL Rules for Classification of Underwater Technology, DNVGL RU UWT,
Diving apparatus: Open-circuit self-contained compressed air diving apparatus EN250:2014,
Self-contained re-breathing diving apparatus EN14143:2013.

Temperature resistance and functional testing
The proper function of the watches could be determined directly after 3 hours of conditioning at -30°C as well as at +70°C and 95% relative humidity, respectively. Examinations were carried out in accordance with the requirements of the European standards EN250:2014 and EN14143:2003, as applicable to the EU Type-Examination of diving apparatus and were performed at the Zentrum für Sicherheitstechnik of the BG Bau in Haan, Germany, as confirmed by test report no. 23-1-0129, dated on 2023-05-23

External pressure testing
Hydraulic pressure tests have been performed under supervision of an authorised representative of DNV GL SE using officially calibrated pressure gauges on 2023-04-25. Testing was carried out as stated below.

Test pressure / Corresponding water depth:	**50 bar, 63 bar /**	**500msw**
Cycles x Holding time:	**1 x 1h, 1 x 0.25h**	
Test media:	**Fresh water**	

After pressure testing, no watch case deformations could be noticed. The proper function of the watches has been determined and a subsequently performed examination proofed the leak tightness of the tested specimen during the pressure test.

Issued at **Hamburg, Germany** on **2023-06-01**

for **DNV**

Digitally Signed By: Khalife, Mohamad
Location: DNV GL Hamburg, Germany
Signing Date: 08.06.2023 , on behalf of

Henrik Derlien
Principal Inspection Engineer
Underwater Technology

Stamp This document has been digitally signed and will therefore not have handwritten signatures

Form code: UWT-DWC-int Revision: 2021-09 www.dnv.com Page 1 of 1

DNV verifies and certifies the pressure resistance of our **U50** series to a diving depth of 500 m and the temperature resistance and functionality in accordance with the European diving equipment standards EN250 and EN14143.

U50 S L – luminous design.

U50 S L – back view.

Large picture:
U50 S L luminescent in the dark (left).
U50 S L in daylight (right).
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

Model U50 S L

The diving watch made of German Submarine Steel with luminous dial

Never lose track of time – especially in the dark. Limited to 500 pieces, our U50 S L model embodies this aspiration in a special way. For example, the entire dial and key marker on the rotating bezel glow and not, as is normally the case, just the indices and hands. This is made possible by the unusual luminous paint application on the dial. In terms of its production, an innovative method is used to incorporate the luminous paint into a mould using a special casting process. After hardening, a hybrid ceramic component is created, which is joined to the metallic base dial.

- Limited to 500 pieces
- Case and crown made from high-strength seawater-resistant German Submarine Steel
- Water-resistant and pressure-resistant to 50 bar (= 500 m water depth), certified by an independent institute
- Tested based on the European diving equipment standards and certified by an independent institute
- Hybrid ceramic, fully lumed dial
- Black Hard Coating on a TEGIMENT Technology basis
- Captive diver’s bezel with minute ratcheting
- Crown at 4 o’clock to prevent pressure on the back of the hand
- Sapphire crystal
- Resistant to low pressure


Sinn
U50
AUTOMATIK
500 m / 50 bar
Made in Germany
55
5
10
15
20
25
30
35
40
45
50

U50 – black silicone strap.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

U50 SDR – Captive diver's bezel with Black Hard Coating on a TEGIMENT Technology basis.
Solid stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

U50 S – case and diver's bezel with Black Hard Coating. Red silicone strap.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)

U50 – luminous design.

DNV verifies and certifies the pressure resistance of our U50 series to a diving depth of 500 metres and its temperature resistance and functionality in accordance with the European diving equipment standards EN250 and EN14143.

Series U50

The diving watch made of German Submarine Steel

- Case and crown made of high-strength, seawater-resistant German Submarine Steel
- Tested based on European diving equipment standards and certified by an independent institute
- Water-resistant and pressure-resistant to 50 bar (= 500 m water depth), certified by an independent institute
- Captive diver's bezel with minute ratcheting
- Diver's bezel made with TEGIMENT Technology and therefore especially scratch-resistant
- Crown at 4 o'clock to prevent pressure on the back of the hand
- Sapphire crystal glass
- Resistant to low pressure

- **U50**:
  - Matt black dial
- **U50 DS**:
  - Limited to 1,000 pieces, dial with decorative grinding
  - Case and bezel with TEGIMENT Technology and therefore especially scratch-resistant
- **U50 SDR**:
  - Matt black dial
  - Diver's bezel with Black Hard Coating on a TEGIMENT Technology basis
- **U50 S**:
  - Matt black dial
  - Case made with Black Hard Coating on a TEGIMENT Technology basis

Large picture:
U50 DS – solid stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 41 mm)


Sinn
HYDRO
U50
Made in Germany

U50 HYDRO S – solid stainless-steel bracelet and Black Hard Coating on a TEGIMENT Technology basis. Three-year guarantee, see page 164. (Case diameter: 41 mm)

U50 HYDRO SDR – olive grey textile strap. Three-year guarantee, see page 164. (Case diameter: 41 mm)

U50 HYDRO – grey silicone strap. Three-year guarantee, see page 164. (Case diameter: 41 mm)

U50 HYDRO S – luminous design.

U50 HYDRO S – back view.

Series U50 HYDRO

Diving watches made of German Submarine Steel with HYDRO Technology

- Case and crown made of high-strength seawater-resistant German Submarine Steel
- Water-resistant and pressure-resistant up to 5,000 m diving depth (= 500 bar), certified by an independent institute
- Tested based on European diving equipment standards and certified by an independent institute
- Thanks to HYDRO Technology, reflection-free readability underwater from every angle and complete freedom from fogging
- High-precision quartz movement
- Diver's bezel with TEGIMENT Technology and therefore especially scratch-resistant
- Functionally reliable from –20 °C to +60 °C
- Captive diver's bezel with minute ratcheting
- Crown at 4 o'clock to prevent pressure on the back of the hand
- Sapphire crystal glass
- Resistant to low pressure

• **U50 HYDRO SDR**:
  - Diver's bezel with Black Hard Coating on a TEGIMENT Technology basis

• **U50 HYDRO S**:
  - Black Hard Coating on a TEGIMENT Technology basis

Large picture:
U50 HYDRO SDR, U50 HYDRO and **U50 HYDRO S.**
Three-year guarantee, see page 164.
(Case diameter: 41 mm)

From practice for practice: The test set-up proves that both the U50 HYDRO (left) and the UX (EZM 2B) can be read under water without reflections from the same flat angles as other diving watches thanks to HYDRO Technology, just as users are used to from a diving watch when not diving.

Benefit of HYDRO Technology

When impressive functionality, perfect readability and technological innovation come together, the result is versatile and robust timepieces such as the watches in the U50 HYDRO series – all of which have a comfortable diameter size of 41 mm! One of the outstanding features of the U50 HYDRO, U50 HYDRO SDR (diver's bezel with Black Hard Coating on a TEGIMENT Technology basis) and U50 HYDRO S (case and diver's bezel with Black Hard Coating on a TEGIMENT Technology basis) is concealed inside the diving watches, meaning that its incredible effect becomes most evident under water: HYDRO Technology. The benefits never fail to impress experienced users: reflection-free underwater readability from any angle, absolute freedom from fogging and – thanks to the special oil filling – water-resistant and pressure-resistant up to a diving depth of 5,000 m (= 500 bar).

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, the world's largest classification society for maritime safety.

Top suitability for everyday use

All three watches focus on a striking design with a display that concentrates on the essentials. They owe their outstanding suitability for everyday use to high-quality features with special materials, which ensure that the watches can withstand even the most adverse conditions. The case and crown are thus made of high-strength seawater-resistant German Submarine Steel. It is characterised by its extreme strength and exceptional non-magnetic properties. Another advantage that stands out for connoisseurs is its outstanding resistance to seawater. As a result, we have designed the rotating bezel to be captive in the case. Thanks to the use of TEGIMENT Technology to harden the surface, it can also easily withstand high external

stresses. The result: exceptional scratch resistance. The positioning of the crown at 4 o'clock also deserves special attention. This prevents pressure on the back of the hand – even during physically demanding activities.

Ultra-reliable function

Due to the aforementioned oil filling, these three timepieces must be quartz watches, as the oscillation of the balance in a mechanical watch would be unable to overcome the high friction resistance of a liquid medium. Nevertheless, watch lovers needn't forgo the reliability typical of SINN – the long-lasting lithium battery used ensures reliable function at temperatures ranging from –20 °C to +60 °C. The battery also has an exceptionally long service life. The movement's integrated EOL (end of life) function prevents the watch from stopping suddenly.

Tested and certified

Whether for professional use or to cope with the demands of diving, all three watches are perfect for such challenges – as has also been confirmed by independent classification company DNV. On our behalf, it tests and certifies pressure resistance to a diving depth of 5,000 m (= 500 bar) and temperature resistance and functionality in accordance with the European diving device standards.

The long history of HYDRO

The use of HYDRO Technology in the U50 HYDRO series is just the culmination of more than 25 years of development and innovation. Indeed, we look back on an extremely successful history with this technology, not least because it is inextricably linked with such renowned names as the GSG 9. After all, in the case of the UX, professional users in particular appreciate the practical benefits of HYDRO Technology.

The first model to unveil the technology was the 403 HYDRO in 1996. As well as setting the benchmark, this watch provided the inspiration for the next milestones, which were reached in 1997 with the launch of today's legendary mission timers: the EZM 1 – equipped with a mechanical movement – for the special unit of the Central Customs Support Group ZUZ (Zentrale Unterstützungsgruppe Zoll) and the EZM 2 – with HYDRO Technology – for the maritime unit of the German Border Protection Group 9 (GSG 9). Further highlights included the UX (EZM 2B) series and, above all, the UX GSG 9 (EZM 2B) series for the maritime unit of a special German police task force (2004/2005). Our UX S model has been used by soldiers in Germany's commando frogman force KSM (Kommando Spezialkräfte der Marine) since 2016.

Legendary mission timer from 1997: The EZM 2 with HYDRO Technology for the maritime unit of the German Border Protection Group 9 (GSG 9).

Pioneer and trailblazer: Our model 403 HYDRO was the first to utilise HYDRO Technology was used for the first time in 1996.

DNV

TEST CERTIFICATE

Certificate No:
A1446295-1E

Particulars of Manufacturer

Manufacturer: **Sinn Spezialuhren zu Frankfurt am Main**

Adress: **Wilhelm-Fay-Straße 21, 65936 Frankfurt am Main, Germany**

This is to certify:

That for the diving watch type line: **SINN U50 HYDRO**

representing the lot of serial nos: **1051.0001-1051.2000**

8 diving watches have been tested on basis of the relevant requirements of:
DNV Rules for Classification of Underwater Technology, DNV RU UWT,
Diving apparatus: Open-circuit self-contained compressed air diving apparatus EN250:2014,
Self-contained re-breathing diving apparatus EN14143:2013.

Temperature resistance and functional testing

The proper function of the watches could be determined directly after 2 hours of conditioning at -30°C as well as at +70°C and 95% relative humidity, respectively. Examinations were carried out in accordance with the requirements of the European standards EN250:2014 and EN14143:2003, as applicable to the EU Type-Examination of diving apparatus and were performed at the Zentrum für Sicherheitstechnik of the BG Bau in Hoan, Germany, as confirmed by test report no. 23-1-0375, dated on 2023-10-26.

External pressure testing

Hydraulic pressure tests have been performed under supervision of an authorised representative of DNV GL SE using officially calibrated pressure gauges on 2023-09-12. Testing was carried out as stated below.

Test pressure / Corresponding water depth:	**500 bar**	**5000msw**
Cycles x Holding time:	**1 x 1h**	/
Test media:	**Fresh water**	

After pressure testing, no watch case deformations could be noticed. The proper function of the watches has been determined and a subsequently performed examination proofed the leak tightness of the tested specimen during the pressure test.

Issued at **Hamburg, Germany** on **2023-10-27**

for **DNV**

Digitally Signed by Khalife, Mohamad
Location: DNV GL Hamburg, Germany
Signing Date: 10/27/2023

Mohamad Khalife
Inspection Engineer
Underwater Technology

Stamp: This document has been digitally signed and will therefore not have handwritten signatures

Form code: UWT DNV.en Revision: 2021-09 www.dnv.com Page 1 of 2

DNV has confirmed and certified the pressure resistance and the type-based test of temperature resistance and functionality in accordance with the European diving device standards EN250 and EN14143.


Sinn
EINSATZZEITMESSER
U212
1000 m-100 bar
Made in Germany
Sinn

U212 (EZM 16) – solid stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 47 mm)

U212 (EZM 16) – black silicone strap.
Two-year guarantee, see page 164.
(Case diameter: 47 mm)

DNV verifies and certifies the pressure resistance of our **U212 (EZM 16)** to a diving depth of 1,000 metres and its temperature resistance and functionality in accordance with the European diving equipment standards EN250 and EN14143.

U212 (EZM 16) – luminous design.

U212 (EZM 16) – back view.

Large picture:
U212 (EZM 16) – black silicone strap.
Two-year guarantee, see page 164.
(Case diameter: 47 mm)

Model U212 (EZM 16)

The mission timer made of German Submarine Steel

The U212 (EZM 16) is made of high-strength, seawater-resistant German Submarine Steel and is 47 mm in diameter. The technologies used make the U212 a robust and accurate instrument for professional diving. For example, Ar-Dehumidifying Technology ensures greater functional reliability and freedom from fogging. Temperature Resistance Technology guarantees the functional reliability of the watch in temperatures ranging from –45°C to +80°C. The surface of the captive diver's bezel with minute ratcheting has also been hardened using TEGIMENT Technology, making it especially scratch-resistant. As the clarity and optimum readability of our mission timers are generally important – especially in darkness or adverse conditions – the key features for recording the time are luminous.

- Case and crown made of high-strength, seawater-resistant German Submarine Steel
- Tested based on European diving equipment standards and certified by an independent institute
- Water-resistant and pressure-resistant to 100 bar (= 1,000 m water depth), certified by an independent institute
- Diver's bezel with TEGIMENT Technology and therefore especially scratch-resistant
- Captive diver's bezel with minute ratcheting
- Ar-Dehumidifying Technology, ensuring greater functional reliability and freedom from fogging
- Sapphire crystal glass
- Resistant to low pressure


Sinn
EINSATZZEITMESSER
UX
HYDRO
GSG 9
M 25 x 2

UX (EZM 2B) – red silicone strap.
Crown on right at 4 o'clock.
Two-year guarantee, see page 164.
(Case diameter: 44 mm)

UX SDR GSG 9 (EZM 2B) – black silicone strap.
Crown on left at 10 o'clock.
Two-year guarantee, see page 164.
(Case diameter: 44 mm)

UX S (EZM 2B) – solid stainless-steel bracelet and Black Hard Coating on a TEGIMENT Technology basis.
Two-year guarantee, see page 164.
(Case diameter: 44 mm)

The **UX (EZM 2B)** is also readable underwater from every angle. A non-filled watch acts like a mirror underwater from an approximately 45° angle due to the total reflection.

DNV verifies and certifies the pressure resistance of our UX (EZM 2B) series (diving depth of case: 12,000 m, movement: 5,000 m) and its temperature resistance and functionality in accordance with the European diving equipment standards EN250 and EN14143.

Series UX (EZM 2B)

The mission timer for special units

The mission that made the special unit of the German Federal Police, GSG 9, famous: rescuing the hijacked "Landshut" aircraft on 18 October 1977 in Mogadishu. Just as legendary as the reputation of this maritime unit is the diving watch that they wear on their missions.

- Case and crown made of high-strength, seawater-resistant German Submarine Steel
- Tested based on European diving equipment standards and certified by an independent institute
- Water-resistant and pressure-resistant to 500 bar (= 5,000 m water depth), certified by an independent institute
- Thanks to HYDRO Technology, reflection-free readability underwater from every angle and complete freedom from fogging
- Captive diver's bezel with minute ratcheting
- Diver's bezel made with TEGIMENT Technology and therefore especially scratch-resistant
- Sapphire crystal glass
- High-precision quartz movement, temperature-stabilised
- Functionally reliable from –20°C up to +60°C
- Resistant to low pressure

- **UX SDR/UX SDR GSG 9 (EZM 2B)**:
  - Diver's bezel with Black Hard Coating on a TEGIMENT Technology basis
- **UX S/UX S GSG 9 (EZM 2B)**:
  - Case made with Black Hard Coating on a TEGIMENT Technology basis

Large picture:
UX GSG 9 (EZM 2B) – silicone strap.
Crown on left at 10 o'clock.
Two-year guarantee, see page 164.
(Case diameter: 44 mm)


Sinn

Classic Masterpieces and Frankfurt Financial District Watches

Our classic masterpieces are characterised by unique horological features that make each and every watch in this range highly individual. The 1739 Ag B is a good example. With its blue dial, appliqués meticulously attached by hand and polished Argentium case, it epitomises timeless design. Whichever watch you choose, the individual characteristics of these timepieces make them classic companions in a league of their own.

Our Frankfurt Financial District Watches are distinguished by their connection with the city of Frankfurt, the internationally renowned banking and stock exchange metropolis, where our company has been based since 1961. Our close affiliation with Frankfurt was first documented in 1999 with the Frankfurt Financial District Watch 6000. This watch would be the first in a series of models to enjoy great popularity beyond the city's borders – because every Frankfurt Financial District Watch has a distinctive feature. Take the Frankfurt Financial District Watch 6012 for example, which is distinguished by the SINN SZ06 movement and a real mother-of-pearl moon phase display.


Sinn
reddot winner 2022

1739 Ag B – fine grey Alcantara** strap.
Two-year guarantee, see page 164.
(Case diameter: 39 mm)

1739 Ag B – brown calf leather strap.
Two-year guarantee, see page 164.
(Case diameter: 39 mm)

1739 Ag B – black calf leather strap.
Two-year guarantee, see page 164.
(Case diameter: 39 mm)

** Alcantara is a registered trademark of Alcantara S.p.A.

1739 Ag B – back view.

1739 – side view.

Model 1739 Ag B

Perfect elegance, in solid silver
with oxidation protection

An inherent combination of watchmaking craftsmanship and distinctly traditional aesthetics defines the style of our 1739 Ag B model. The eyes are drawn to the electroplated blue dial exquisitely decorated with a sunburst finish. Reduced to a minimum, the design focuses on the essentials – the hour and minute display. We felt it was only logical to capture the elegance of this two-handed watch in a case made of special material. The 935 Argentium* silver alloy used here has a special advantage: rather than tarnishing and blackening like normal silver, Argentium* forms a protective germanium oxide surface layer. This layer considerably slows down the tarnishing process. Instead, a golden hue develops, which can be removed with an Argentium* care cloth.

– Case made of solid silver, polished
– Argentium* silver alloy protects against oxidation
– Electroplated blue dial with sunburst decoration
– Sapphire crystal glass
– Transparent case back made of sapphire crystal glass
– Appliqués, meticulously attached by hand
– Water-resistant and pressure-resistant to 10 bar
– Resistant to low pressure

Large picture:
1739 Ag B – black calf leather strap.
Two-year guarantee, see page 164.
(Case diameter: 39 mm)

* Argentium is a registered trademark of Argentium International Limited.


Sinn
MADE IN GERMANY

1739 St I 4N – black calf leather strap.
Two-year guarantee, see page 164.
(Case diameter: 39 mm)

1736 St I 4N – brown calf leather strap.
Two-year guarantee, see page 164.
(Case diameter: 36 mm)

1739 St I S – black calf leather strap.
Two-year guarantee, see page 164.
(Case diameter: 39 mm)

1739 St I 4N – back view.

1739 St I 4N – side view.

Models 1736 St I 4N, 1739 St I 4N and 1739 St I S
Perfect elegance

Often it's details that turn an extraordinary watch into something exceptional. In the 1736 St I 4N and 1739 St I 4N it is the stylishly arranged golden hands, the appliqués, meticulously attached by hand and the silver electroplated dial with sunburst decoration – an interplay that creates a highly exquisite and elegant feel. Details that feature in both watches yet differ in size. For the 1739 St I 4N has a diameter of 39 mm, while the 1736 St I 4N has a diameter of 36 mm. At 39 mm in diameter, the 1739 St I S offers strikingly different features. Here it is the silver hands, the appliqués, meticulously attached by hand and the black dial with sunburst decoration that emphasise the timelessly classic design. All three models skilfully incorporate selected elements from previous styles, illustrating a sense of tradition. This is reinforced by the slightly curved, high-quality sapphire crystal.

– Case made of stainless steel, polished
– Sapphire crystal glass
– Transparent case back made of sapphire crystal glass
– Appliqués, meticulously attached by hand
– Water-resistant and pressure-resistant to 10 bar
– Resistant to low pressure

- **1736 St I 4N and 1739 St I 4N:**
  – Silver electroplated dial, with sunburst decoration

- **1739 St I S:**
  – Electroplated black dial with sunburst decoration

Large picture:
1739 St I S – black calf leather strap.
Two-year guarantee, see page 164.
(Case diameter: 39 mm)

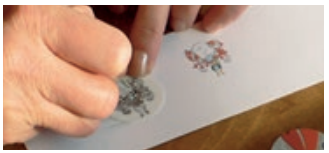

Sinn
Frankfurt
am Main

1746 Porcelain – example of a dial with a family crest (custom dial motifs possible). Two-year guarantee, see page 164. (Case diameter: 42 mm)

1746 Porcelain with individual motif. Here the signature of Arthur Schopenhauer is hand-painted on the dial, which is made from the finest quality porcelain. Two-year guarantee, see page 164. (Case diameter: 42 mm)

1736 Classic – high-quality vitreous enamel dial and date display. Two-year guarantee, see page 164. (Case diameter: 36 mm)

1746 River landscape 2 in blue (top) and 1746 River landscape 1 in purple (right). 3 river landscapes and 3 townscapes, each available in the colours blue, purple and anthracite and limited to only 25 pieces per motif and colour.



Porcelain painter working on a dial with family crest.

Model 1736 Classic and Series 1746
Perfect elegance

A traditional watch design from the house of SINN, combining clearly contrasting black and white with sheer elegance and technical precision. A beautifully designed and elegant favourite for everyday use. The stylish porcelain dials of the series 1746 underline the individual personality of the wearer.

- Case made of stainless steel, polished
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Exquisitely decorated movement
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

- **1746 Porcelain**:
  - Hand-painted dial made from the finest quality porcelain
  - Three river landscapes and three cityscapes, each in the colours blue, purple and charcoal grey, and the municipal coat of arms of Frankfurt am Main
  - Strictly limited to just 25 pieces per motif and colour; custom motifs available on request
- **1736 Classic**:
  - Case diameter: 36 mm

Large picture:
1746 Skyline in anthracite is also available in purple and blue. Two-year guarantee, see page 164. (Case diameter: 42 mm)


Sinn

1746 Heimat – blue calf leather strap.
Two-year guarantee, see page 164.
(Case diameter: 42 mm)

Detailed view of the exquisite, silver-white relief dial with its three-dimensional surface structure.

1746 Heimat – back view.

1746 Heimat – side view.

1746 Heimat
Elegance with a relief dial

Model 1746 Heimat pays homage to our home city, Frankfurt am Main. The extremely fine rhodium-coated relief dial is inspired by the traditional diamond pattern of Frankfurt's popular cider glasses, also known as *Geripptе*. The three-dimensional diamond pattern creates an incredibly vibrant interplay of light and shade on the cider glasses. Upon closer inspection, the relief on the dial appears just as vibrant and three-dimensional, with a wide range of surface characteristics – from polished to matt silk. The effect is a result of the electroforming technique used in the production process. This method allows complex three-dimensional surface structures to be achieved with a high degree of precision. The relief dial is coated with rhodium, a precious metal similar to platinum, which gives the dial an exquisite silver-white shine.

– Case made of stainless steel, polished
– Relief dial
– Sapphire crystal glass
– Transparent case back made of sapphire crystal glass
– Water-resistant and pressure-resistant to 10 bar
– Resistant to low pressure

Large picture:
1746 Heimat – fine grey Alcantara* strap.
Two-year guarantee, see page 164.
(Case diameter: 42 mm)

* Alcantara is a registered trademark of Alcantara S.p.A.


Sinn
FRANKFURT AM MAIN
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The Frankfurt Financial District Watch in rose gold – black alligator leather strap.
Five-year guarantee, see page 164.
(Case diameter: 38.5 mm)

The **Frankfurt Financial District Watch 6000** – black calfskin strap.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

The **Frankfurt Financial District Watch 6099** – fine-link stainless-steel bracelet and polished stainless-steel case.
Two-year guarantee, see page 164.
(Case diameter: 41.5 mm)

The models **6000** and **6099** each come in a fine wooden case with a solid stainless-steel bracelet, leather strap (model **6000 Rose Gold** has a brown and black alligator leather strap), a band replacement tool, spare spring bars, an Eschenbach watchmaker's magnifying glass, a care cloth and a brochure.

The Frankfurt Financial District Watch
Series 6000 and 6099

- Exquisitely decorated movement
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Displays three time zones on a 12-hour basis
- Rotor engraving of the Frankfurt skyline
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

- **6000 Rose Gold**:
  - Case made of 18-carat rose gold
  - DIAPAL – the lubricant-free anchor escapement
- **6000**:
  - Case made of stainless steel, polished
- **6099**:
  - Case made of stainless steel, polished

The white-gold anniversary version of our Frankfurt Financial District Watch and the platinum Frankfurt Financial District Watch won the coveted "Goldene Unruh" in 2006 and 2012 respectively.

Large picture:
The **Frankfurt Financial District Watch in rose gold** – brown alligator leather strap.
Five-year guarantee, see page 164.
(Case diameter: 38.5 mm)


MON
OKT
Sinn
FRANKFURT AM MAIN
Made in
Germany

The **Financial District Watch 6012 with moon phase and full calendar display** – electroplated black dial set with rhodium-plated appliqués. Black calfskin strap. Two-year guarantee, see page 164. (Case diameter: 41.5 mm)

For the moon discs on the moon phase display we use real mother-of-pearl. Due to the special, naturally occurring surface structure, mother-of-pearl creates a matt iridescent finish, which enhances the elegance of the watch.

The **watch** comes in a fine wooden case with a solid stainless-steel bracelet, calf leather strap, a band replacement tool, spare spring bars, an Eschenbach watchmaker's magnifying glass, a care cloth and a brochure.

The **Frankfurt Financial District Watch 6012 with moon phase and full calendar display.** Luminous design.

The **Frankfurt Financial District Watch 6012 with moon phase and full calendar display.** Back view.

The Frankfurt Financial District Watch with moon phase and full calendar display
Model 6012

Model 6012 is the first to feature the Sinn SZ06 movement. Thanks to this complex factory modification, we were able to combine the stopwatch minute counter with 60-second scale and the full calendar display with a moon phase display. This also ensures optimum readability, as the stopwatch minutes from 0 to 60 can easily be read. For the moon discs on the moon phase display we use real mother-of-pearl. Due to the special, naturally occurring surface structure, mother-of-pearl creates a matt iridescent finish, which enhances the elegance of the watch.

- Sinn SZ06 movement with a 60-second scale for the stopwatch minute, moon phase and full calendar display
- Moon phase display with real mother-of-pearl moon discs
- Centre-mounted date hand, day of the week and month display
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Case made of stainless steel, polished
- Exquisitely decorated movement with rotor engraving of the Frankfurt skyline
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

Large picture:
The **Frankfurt Financial District Watch 6012 with moon phase and full calendar display** – fine-link stainless-steel bracelet. Two-year guarantee, see page 164. (Case diameter: 41.5 mm)


Sinn
FRANKFURT AM MAIN
DON
JUN
WOCHEN
Made in Germany
2014
Donnerstag 12. Juni 2014
JUN

The **Financial District Watch 6052 with calendar week display** – black calf leather strap. Electroplated black dial set with rhodium-plated appliqués.
Two-year guarantee, see page 164.
(Case diameter: 41.5 mm)

The **Financial District Watch 6052 with calendar week display** – fine-link stainless-steel bracelet. Electroplated black dial set with rhodium-plated appliqués.
Two-year guarantee, see page 164.
(Case diameter: 41.5 mm)

The watch comes in a fine wooden case with a solid stainless-steel bracelet, calf leather strap, a band replacement tool, spare spring bars, an Eschenbach watchmaker's magnifying glass, a care cloth and a brochure.

The **Frankfurt Financial District Watch 6052** with calendar week display. Luminous design.

The exquisitely decorated movement with the blued screws is clearly visible through the sapphire crystal glass.

The Frankfurt Financial District Watch with calendar week display
Model 6052

Each Frankfurt Financial District Watch is distinguished by its individual characteristics. And model 6052 is no different. For the traditional chronograph boasts a handy calendar week display – the first special function of its kind to be used in a SINN watch. In addition to the calendar week, the dial also displays the day of the week and month, making the 6052 the ideal watch for organising business appointments and planning activities – without the need for a calendar. This special function is enabled by the SZ03, a movement modification designed and implemented by us. This movement also boasts a 60-minute – rather than the standard 30-minute – counter at 12 o'clock.

- SINN SZ03 chronograph movement with 60-minute stopwatch display
- Calendar week display
- Centre-mounted date hand, weekday and month display
- Case made of stainless steel, polished
- Black electroplated dial with rhodium-plated appliqués
- Exquisitely decorated movement with rotor engraved Frankfurt skyline
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

Large picture:
The **Frankfurt Financial District Watch 6052** – calendar week display.
Back calfskin strap. Two-year guarantee, see page 164.
(Case diameter: 41.5 mm)


Sinn
Made in Germany

The **Frankfurt World Time Watch 6060 B** –
blue cowhide strap.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

The **Frankfurt World Time Watch 6060** –
gracefully designed solid bracelet.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

The **Frankfurt World Time Watch 6096** –
black calf leather strap. Electroplated black dial
set with rhodium-plated appliqués.
Two-year guarantee, see page 164.
(Case diameter: 41.5 mm)

The **Frankfurt World Time Watch 6060 B**.
Luminous design.

The exquisitely decorated movement with
the blued screws is clearly visible through the
sapphire crystal glass.

Large picture:
The **Frankfurt World Time Watch 6060 B** –
gracefully designed solid bracelet.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

The Frankfurt World Time Watches
Models 6060/6060 B/6096

These timepieces are characterised by three simultaneously readable time zones. The exquisitely decorated movement with bull and bear rotor engraving can be admired through the transparent case back made of sapphire crystal glass with anti-reflective coating on the inside. The polished stainless-steel case houses a high-quality sunburst dial in either black (6060, 6096) or blue (6060 B). The appliqués are finished with luminous paint, as are the hour and minute hands. These models come in a fine wooden case with a gracefully designed solid bracelet, a leather strap and accessories.

– Case made of stainless steel, polished
– Displays three time zones on a 12- and 24-hour basis
– Sapphire crystal glass
– Transparent case back made of sapphire crystal glass
– Exquisitely decorated movement with bull and bear rotor engraving
– Water-resistant and pressure-resistant to 10 bar
– Resistant to low pressure

- **6060 B**:
  – Electroplated blue dial with sunburst decoration
- **6060/6096**:
  – Electroplated black dial with sunburst decoration


Sinn
FRANKFURT AM MAIN
AUTOMATIK
Made in Germany

The **Frankfurt Financial District Watch 6068 B** – fine-link stainless-steel bracelet.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

The **Frankfurt Financial District Watch 6068** – black calf leather strap. Electroplated black dial set with rhodium-plated appliqués.
Two-year guarantee, see page 164.
(Case diameter: 38.5 mm)

Models **6068** and **6068 B** each come in a fine wooden case with a solid bracelet, a leather strap, a band replacement tool, spare spring bars, an Eschenbach watchmaker's loupe, a care cloth and a brochure.

The **Frankfurt Financial District Watch 6068 B.**
Luminous design.

The exquisitely decorated movement with the blued screws is clearly visible through the sapphire crystal glass.

The Frankfurt Financial District Watch
Models 6068 and 6068 B

These watches display two time zones on a 12-hour basis. The polished stainless-steel case features crystal made of sapphire crystal and contains a black (6068) or blue (6068 B) dial with a sunburst finish. It is rounded off by appliqués which are coated with luminous paint, as are the hour and minute hands. The bull and bear rotor engraving can be admired through the transparent case back made of sapphire crystal glass.

- Displays two time zones on a 12-hour basis
- Smart wooden case with a solid stainless-steel bracelet and calf leather strap
- Case made of stainless steel, polished
- Sapphire crystal glass
- Transparent case back made of sapphire crystal glass
- Exquisitely decorated movement with bull and bear rotor engraving
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

- **6068**:
  - Electroplated black dial with sunburst decoration
- **6068 B**:
  - Electroplated blue dial with sunburst decoration

Large picture:
The **Frankfurt Financial District Watches 6068 B** – blue cowhide strap.
Two-year guarantee, see page 164. (Case diameter: 38.5 mm)


Sinn
RANKFURT AM

Ladies' Watches

As well as being decorative, our ladies' watches reflect the wearer's personality – partly because the timepieces are designed with elegance and feminine aesthetics in mind. These timepieces are not just beautiful: they also boast features such as electromagnetic pulse shielding, as in the case of the 434 St GG Mother-of-Pearl W model with its decorative bezel of 18-carat yellow gold. As all of our timepieces are also water-resistant, resistant to low pressure and anti-magnetic, they tick all the right boxes for a ladies' watch from Sinn Spezialuhren.


Sinn
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434 St B – dark blue calf leather strap.
Electroplated blue dial, with sunburst decoration.
Two-year guarantee, see page 164.
(Case diameter: 34 mm)

434 St GG B – fine grey Alcantara* strap.
Electroplated blue dial, with sunburst decoration.
Two-year guarantee, see page 164.
(Case diameter: 34 mm)

434 TW68 WG B – black calf leather strap.
Electroplated blue dial, with sunburst decoration.
Two-year guarantee, see page 164.
(Case diameter: 34 mm)

* Alcantara is a registered trademark of Alcantara S.p.A.

Back view of the **434 St B**.

Side view of the **434 St B**.

Series 434 B
The elegant ladies' watch with [Q] Technology

As a daily watch wearer, you count on your watch being both reliable and safe to wear. Series 434 B is a combination of both; the electromagnetic radiation is minimised by the movement. See page 145 for more details. These watches also feature a temperature-stabilised chronometer precision movement. Discover the extraordinary character of these watches too, and choose between a number of different high-quality designs. A new level of exclusivity is evoked by the model, which features a fine, decorative bezel of 18-carat yellow gold. Understated elegance is created by the appliqués, which have been meticulously attached by hand to show the hours.

- Electroplated blue dial, with sunburst decoration
- Classic, elegant stainless-steel case
- Shielding of the electromagnetic pulses emitted by the quartz movement
- Appliqués, meticulously attached by hand
- High-precision quartz movement, temperature-stabilised
- Sapphire crystal glass
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

- **434 St GG B**: Decorative bezel made of 18-carat yellow gold
- **434 TW68 WG B**: Decorative bezel of 18-carat white gold with 68 diamonds (0.6 ct) in Top Wesselton quality

Large picture:
434 TW68 WG B – fine-link stainless-steel bracelet.
Electroplated blue dial with sunburst decoration.
Two-year guarantee, see page 164.
(Case diameter: 34 mm)


Sinn
[Q]
Sinn
[Q]

434 TW68 WG Mother-of-Pearl W – bluish grey calf leather strap and shimmering white mother-of-pearl dial. Two-year guarantee, see page 164. (Case diameter: 34 mm)

434 TW68 WG S – white calf leather strap. Electroplated black dial with sunburst decoration. Two-year guarantee, see page 164. (Case diameter: 34 mm)

434 TW68 WG S – fine-link stainless-steel bracelet. Electroplated black dial with sunburst decoration. Two-year guarantee, see page 164. (Case diameter: 34 mm)

Back view of the **434 TW68 WG S**.

Clearly visible: the decorative bezel of 18-carat white gold encased in 68 precious diamonds in Top Wesselton quality.

Large picture:
434 TW68 WG S –
black calf leather strap.
434 TW68 WG Mother-of-Pearl W –
brown calf leather strap.
Two-year guarantee, see page 164.
(Case diameter: 34 mm)

Series 434 TW68

The elegant ladies' watch with [Q] Technology

These ladies' watches are real pieces of jewellery, perfect in combination with many items of clothing. The dial of two of the models is encased in a fine decorative bezel of 18-carat white gold with 68 precious diamonds in Top Wesselton quality, providing an elegant touch of finesse. And to make finding the perfect watch even easier for the wearer, there are now two stylish dial designs to choose from. Another unique design feature is created by the various appliqués, which have been meticulously attached by hand to show the hours. Particularly eye-catching are the hours with rhodium-plated Roman numerals. The [Q] symbol on the dial confirms the minimised electromagnetic radiation emitted by the movement. To find out more about this topic, please refer to page 145.

- Decorative bezel of 18-carat white gold with 68 diamonds (0.54 ct) in Top Wesselton quality
- Classic, elegant stainless-steel case
- Shielding of the electromagnetic pulses emitted by the quartz movement
- Appliqués, meticulously attached by hand
- High-precision quartz movement, temperature-stabilised
- Sapphire crystal glass
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

- **434 TW68 WG S**: Electroplated black dial, with sunburst decoration
- **434 TW68 WG Mother-of-Pearl W**: Shimmering white mother-of-pearl dial


Sinn
[Q]
Sinn
FRANKFURT AM MA
[Q]

434 St S – black calf leather strap.
Electroplated black dial with sunburst decoration.
Two-year guarantee, see page 164.
(Case diameter: 34 mm)

434 St Mother-of-Pearl W – fine-link stainless-steel bracelet and shimmering white mother-of-pearl dial. Two-year guarantee, see page 164.
(Case diameter: 34 mm)

434 St Mother-of-Pearl W – brown calf leather strap and shimmering white mother-of-pearl dial.
Two-year guarantee, see page 164.
(Case diameter: 34 mm)

Back view of the **434 St S**.

Side view of the **434 St GG S**.

Large picture:
434 St GG Mother-of-Pearl W – dark blue calf leather strap.
434 St GG S – fine grey Alcantara* strap.
Two-year guarantee, see page 164.
(Case diameter: 34 mm)

Series 434 St

The stylish ladies' watch with [Q] Technology

As a daily watch wearer, you count on your watch being not only reliable but also safe to wear. Our 434 St series fulfils both requirements, minimising the electromagnetic radiation emitted by the movement. To find out more about this topic, please refer to page 145. Discover the extraordinary character of these watches, too. Choose between four high-quality designs. A whole new level of exclusivity is evoked by the two models featuring a fine, decorative bezel of 18-carat yellow gold. Understated elegance is created by the various appliqués, which have been meticulously attached by hand to show the hours. Particularly eye-catching are the hours with rhodium-plated Roman numerals.

- Decorative bezel of 18-carat yellow gold (434 St GG S and 434 St GG Mother-of-Pearl W)
- Classic, elegant stainless-steel case
- Shielding of the electromagnetic pulses emitted by the quartz movement
- Appliqués, meticulously attached by hand
- High-precision quartz movement, temperature-stabilised
- Sapphire crystal glass
- Water-resistant and pressure-resistant to 10 bar
- Resistant to low pressure

- **434 St GG S**: Electroplated black dial, with sunburst decoration
- **434 St GG Mother-of-Pearl W**: Shimmering white mother-of-pearl dial
- **434 St S**: Electroplated black dial, with sunburst decoration
- **434 St Mother-of-Pearl W**: Shimmering white mother-of-pearl dial

* Alcantara is a registered trademark of Alcantara S.p.A.


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456 St GG Mother-of-Pearl W – shimmering white mother-of-pearl dial and decorative 18-carat-gold bezel.
Two-year guarantee, see page 164.
(Case diameter: 28 mm, fig.: 1:1)

456 TW12 – 18-carat-gold bezel and 12 Top Wesselton diamonds on the dial.
Two-year guarantee, see page 164.
(Case diameter: 28 mm, fig.: 1:1)

456 TW70 GG – fine-link bracelet. 18-carat-gold bezel and 70 Top Wesselton diamonds.
Two-year guarantee, see page 164.
(Case diameter: 28 mm, fig.: 1:1)

Back view of the **456 TW70 GG**.
(Case diameter: 28 mm, fig.: 1:1)

Clearly visible: the high-quality, individually set Top Wesselton diamonds.

Large picture:
456 TW70 WG – 18-carat-white-gold bezel and 70 Top Wesselton diamonds.
Two-year guarantee, see page 164.
(Case diameter: 28 mm)

Series 456
The classic ladies' watch

These SINN timepieces are luxury for the wrist. Set with glamorous diamonds. A special treat for aficionados who love exclusive designs. Timelessly elegant. Yet still suitable for everyday use.

- Mechanical movement with self-winding mechanism
- Electroplated black dial
- Case made of stainless steel, polished
- Sapphire crystal glass
- Water-resistant and pressure-resistant to 20 bar
- Resistant to low pressure

- **456 TW70 GG**:
  - Decorative bezel made of 18-carat yellow gold and 70 diamonds (0.6 carat) in Top Wesselton quality (58 diamonds in the decorative bezel and 12 diamonds on the dial)
- **456 TW70 WG**:
  - Decorative bezel made of 18-carat white gold and 70 diamonds (0.6 carat) in Top Wesselton quality (58 diamonds in the decorative bezel and 12 diamonds on the dial)
- **456 TW12**:
  - Decorative bezel made of 18-carat yellow gold and 12 diamonds (0.1 carat) in Top Wesselton quality on the dial
- **456 St GG Mother-of-Pearl W**:
  - Decorative bezel made of 18-carat yellow gold


DIA
PAL

Reports, technologies and mission timers

Whether providing a detailed description of our technologies, reporting on interesting topics such as the company headquarters in Sossenheim and the DIN 8330 pilot watches, or clearly illustrating our mission timers, the following pages offer a wealth of information to help you gain a deeper insight into our company.

Frankfurt am Main – Hometown of Sinn Spezialuhren:

Company headquarters in Sossenheim – Branch in Römerberg square

Two company-owned points of contact in Frankfurt am Main

With our headquarters in Frankfurt's Sossenheim district and the SINN Niederlassung Römerberg branch in the heart of Frankfurt, we intend to remain true to our roots in Frankfurt am Main in future. After all, the name of the city adorns the dial of many of our watches. We also aim to continue to do our best to make sure the financial hub is perceived as a renowned watchmaking hub beyond the city's borders, too.

Headquarters in Sossenheim

On 1 September 2017, we moved into our company headquarters at Wilhelm-Fay-Strasse 21 in Frankfurt's Sossenheim district. This is where we develop and produce our high-quality mechanical timepieces. Here you can buy your SINN watch directly in our generously sized sales- and showroom, and browse through the entire collection shown in our current catalogue. Our staff will be only too happy to offer advice and deal with any customer service issues. Customers also have the opportunity to admire previous models from Sinn Spezialuhren.

On 1 September 2017 our company moved into its new headquarters at Wilhelm-Fay-Strasse 21 in Frankfurt's Sossenheim district.

The new, generously sized sales- and showroom at our headquarters in Frankfurt's Sossenheim district. Here you can get personal advice and take the time to choose your SINN watch.

Our branch in the historic 'Haus zum Goldenen Rad'. Reconstructed in 1955, the original building dates back some 800 years.

Branch in Frankfurt's Römerberg square

Our branch in Frankfurt's Römerberg square offers our customers in Frankfurt am Main an attractive alternative to our salesroom in Sossenheim and the opportunity to purchase a SINN watch in person. Customers travelling from outside the city can purchase their SINN watch on a stroll around the city – without even having to leave the city centre.

View of the salesroom at our Römerberg branch. Besides offering advice and handling sales, our staff also deal with any customer service issues.

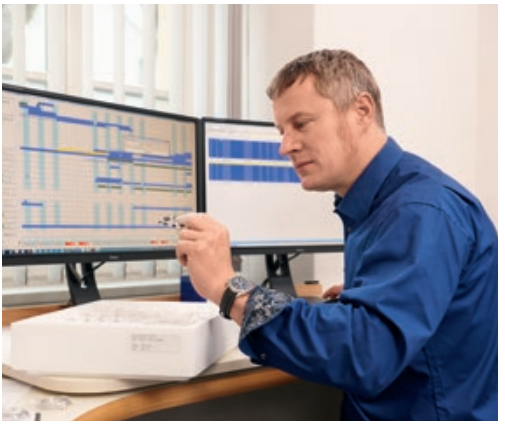
Sächsische Uhrentechnologie GmbH (SUG), Glashütte

Factory for high-tech watch cases

Toward the end of the tour of the German Horological Museum in Glashütte, visitors find themselves in a brightly lit room containing a handful of white display cabinets in which renowned local clock and watchmakers display a selection of their wares. Information panels point out the special features of each model and company. While examining the items on display, visitors sometimes do a double take – one of the companies being showcased produces technologically sophisticated cases, in contrast to the finished luxury watches made by the other exhibitors. The company in question is Sächsische Uhrentechnologie GmbH (SUG) based in Glashütte, a company that has earned its place among the other historical manufacturers presented at the museum.

The move to independence

What factors led to the founding of SUG? Having worked for Glashütter Uhrenbetriebe, Ronald Boldt was also familiar with the suppliers of watch cases. He observed two things: that the market was relatively small and manageable, and that there was room for improvement in terms of production quality. Why not do it himself, he thought. In 1999, Ronald Boldt set out on the road to entrepreneurial freedom with two partners – one of which was Lothar Schmidt. As so often in life, this was the result of a fortunate coincidence: Ronald Boldt was looking for business partners to help establish a new company, while Lothar Schmidt was looking for a new supplier of high-quality watch cases for SINN. Since the two men had met before in the tight-knit horological community of Glashütte, they wasted no time in discussing their options. And so the cornerstone was laid. When a disastrous flood destroyed SUG's premises in 2002, Lothar Schmidt acquired the shares of the third partner, further cementing the already successful partnership between Ronald Boldt and Lothar Schmidt. Today, Ronald Boldt regards the alliance as exemplary and views the business relationship as one which both sides continue to care about passionately. After all, both are engineers who speak the same language and who get along well – professionally and personally. Ronald Boldt has meanwhile left the company to enjoy his well-earned retirement. His son Daniel, who has been working for the company for years, has taken his place as sole managing director (see box on page 135).



Daniel Boldt casting a critical eye over a case. SUG also offers small-scale production runs, including design, CNC production, finishing and assembly. The production chain ends with a completely assembled case. All products are manufactured with the utmost precision and guarantee the highest quality.

Flexible, start-to-finish manufacturing of small production runs

And so SUG has supplied SINN with watch cases ever since being founded. The small Saxon company has grown from its humble origins into one of the leading manufacturers in the field. In terms of finding and implementing the best solutions, SUG's quality and production processes are on a technological par with those of the best manufacturers in the business – anywhere in Europe! This is evidenced by the list of renowned watchmakers that entrust their production secrets to SUG and commission the company to manufacture watch cases for them. SUG's success is a monument to the outstanding expertise the company has accrued over the years, and to its proven ability to come up with unique solutions, again and again. Another advantage of the company is its ability to provide extremely flexible, start-to-finish manufacturing of small production runs in premium quality, including design, CNC machining, finishing and assembly. The result is a finished watch case assembled completely to the desired specifications. Being able to perform tasks other manufacturers would balk at requires not only experience, but also creativity and passion – all of which are in ample supply at SUG. The company has succeeded in taking even the most demanding watch case designs through to series production readiness. "We are not an easy act to follow," says Ronald Boldt with pride.

Machining a watch case using a state-of-the-art CNC machine.

A job for goldsmiths and toolmakers

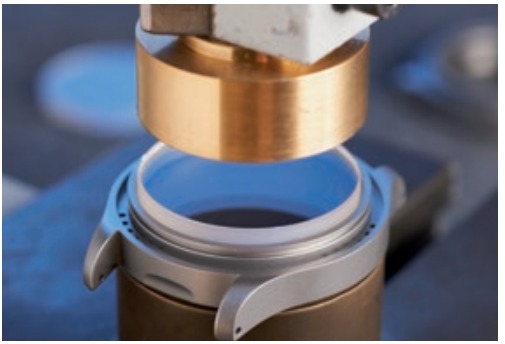
In other words, there are no limits to what his employees can make. And SINN cases are distinguished by their typical characteristics. They comprise individual components such as push-pieces, crowns, bezels, seals, backs, screws and springs, and are three-dimensional structures made of stainless steel, titanium, gold or – in the case of SINN diver's watches – submarine steel. That requires specially developed tools and technologies – and not only for the manufacturing process. Watch cases are also characterised by their need to meet both aesthetic and technological demands. Ronald Boldt describes it aptly: "Making a watch case requires you to be both a goldsmith and a toolmaker." The first step in this symbiosis of workmanship involves creating a production-ready, photorealistic 3D design on the basis of the specifications. After fine-tuning and approving the design, Ronald Boldt prepares the sets of drawings for the individual components and the tools that will be used to complete the second step in the production process. "This is value creation in the truest sense of the word. You take a workpiece – a rod, disc or circular blank – and lathe and mill it to create the finished components." The subsequent third step involves what he calls "artistic handiwork" – the finishing process, i.e. grinding and polishing the surface of the case. "The results must be outstanding, because if they are not outstanding, they are rejected," he says in reference to the extremely high quality standards that leave no room for compromise. Finally, the individual components are assembled to create the finished product. The completed cases are then tested for pressure and water resistance and sent to SINN. The next step in the process of creating a high-quality special watch is carried out in Frankfurt am Main. It involves not only assembling and installing the movement, dial, hands and strap/bracelet, but above all integrating the SINN technologies.

SINN cases – a creative challenge

Each SINN case is given an individual quality assurance number, making it a unique specimen that must be water-resistant and protect the sensitive interior workings from dust and impact after assembly. But there is an additional element involved which, according to Ronald Boldt, "presents an ongoing creative challenge." He is referring to the fact that SUG also manufactures cases for the pilot's and diver's watches, i.e. models which SINN has specially developed for use by professionals. They feature such technologies as HYDRO, Special Oil, Ar-Dehumidifying Technology, DIAPAL, TEGIMENT and Magnetic Field Protection – as well as extras like captive bezels and high-pressure resistance. And all of these technical features that are so characteristic of SINN watches place enormous demands on the construction and manufacturing of the cases. There are no off-the-peg solutions to these difficult tasks. Which means the SUG staff must constantly be searching for new methods and approaches. "This is an area where SINN Spezialuhren lives up to its name – these are truly 'special watches'," says Ronald Boldt. Take the U2 diving watch, for example: what other manufacturer is called upon to make a watch case out of submarine steel, a material that is scarcely ever used for watches? And the case must be capable of integrating Ar-Dehumidifying Technology and Special Oil, and it must fulfil the stringent testing requirements of Germanischer Lloyd in terms of pressure resistance, temperature resistance and functionality.

What makes a watch a "special watch"

It is therefore crucial for SINN watch cases to fulfil these technical demands. In addition to protecting the movement, the case also has to ensure smooth operation of the watch's various technological features. And there is a further factor: the ideas behind the technologies are realised in two important steps, namely the engineering design at the drafting table and the actual production on the CNC machine. In other words, it is the cases made by SUG in collaboration with the SINN development engineers that make SINN watches "special watches". "Many of the technologies in SINN watches are made possible by the special construction of the watch case," explains Ronald Boldt. Magnetic Field Protection, for example, requires the use of special materials developed to provide the particular characteristics required by the case. Of course, he is not revealing what those traits are.



The utmost precision is required when pressing in the sapphire crystal glass.

Two generations of SUG: under the leadership of company founder Ronald Boldt (left), the company has grown from a three-man operation into one of Europe's most renowned watch case manufacturers. Since his departure, his son Daniel has been successfully running the business.

From the idea through to production readiness

The development of the D3 System is a good example of the process from the initial concept by SINN engineers to series production of the case by SUG. This horological innovation creates a seamless seal by inserting the push-piece pins and crown shafts directly in a specially finished drill hole in the case (the name D3 comes from "Direkt Doppel Dichtend", the German words for "direct double sealing"). The D3 System permits the crown and push-piece to be integrated in the case, providing reliable protection from lateral impact and the penetration of dust or moisture. "The D3 System is a simple and effective sealing method that is both reliable and easy to assemble and service. It provides a better seal because it has fewer transition points between the interior and the exterior. But actually realising and implementing this solution was a real challenge in terms of design and production," Boldt explains.

A brand in case manufacture

SUG has now made a name for itself in the watchmaking industry and is regarded as a recognised brand in case manufacturing. The products created with the utmost precision are considered proof of outstanding quality, especially amongst industry experts. For Ronald Boldt, this recognition is the result of years of consistently good work. "It is very important that industry experts know who we are. That these experts are familiar with and value our work and trust that we can handle virtually any case-making task." It is therefore only fitting that SUG is featured in a display case at the German Horological Museum in Glashütte, where visitors learn what the company stands for – technologically sophisticated cases and first-class precision engineering from one of Germany's most traditional watchmaking regions.

During final assembly, the individual components are pieced together to form complete cases, as shown here by the EZM 7 mission timer for the fire service.

Ronald Boldt, born in 1947, completed his vocational training in mechanical engineering in Leipzig before earning a degree (Dipl.-Ing.) in precision engineering at the Technical University Dresden. From 1977 to 1989 he worked as a design engineer for special machinery at VEB Glashütter Uhrenbetriebe (GUB). Beginning in 1990, he served as the company's head design engineer and authorised signatory for the technology division, and was also responsible for technology and quality assurance. In December 1998, together with the owner of Sinn Spezialuhren, Lothar Schmidt (Dipl.-Ing.), he co-founded SUG, of which he has been co-owner and managing director since 1 April 1999. Ronald Boldt has meanwhile retired.
Provisions have already been made to ensure the company continues on its successful course: son **Daniel Boldt**, born in 1975, has been with the company since its foundation. After completing a dual course of study in industrial engineering at the training centre of the Dresden Chamber of Industry and Commerce, he went on to complete his practical training at SUG. Since 1 September 2012, he has been managing director of the company, in particular managing the commercial side of things, as well as production planning and control. Upon his father's retirement he assumed sole responsibility for SUG.

The current design awards

iF Design Award 2024 for the model T50 GBDR

The watch with its captive safety diver's bezel made of gold bronze 125 harmoniously combines robustness with refined elegance and thus appeals to professional divers and watch enthusiasts. It is a testament to precision engineering and innovative design that guarantees both durability and aesthetics.

356 FLIEGER Klassik AS E receives the "Excellent Product Design Award 2024" at the German Design Award

The 356 FLIEGER Klassik AS E combines functionality with stylish design. Bead-blasted case, impact-resistant acrylic glass and solid base are the features with which the first 356 model was launched in 1998.

iF Design Award 2023 for the model 105 St Sa UTC W

For the second time, a Sinn watch has been honoured with the prestigious design award and met the demanding evaluation criteria. Unlike other awards, the iF Design Award is based on detailed questions in the categories of idea, form, function, differentiation and impact.

1800 S GG DAMASZENER receives Excellent Product Design Award 2023

Our model 1800 S GG DAMASZENER receives the 'Excellent Product Design' award of the German Design Awards. For the timepiece, which is limited to 100 pieces, we use genuine fire-welded Damascus steel, which, with its distinctive and unique grain, gives the noble watch its own unmistakable identity.

Red Dot Award 2022 for the model 1739 Ag B

In the category 'Product Design', three watches from Sinn Spezialuhren have already won a Red Dot Award in the past. The fact that the model 1739 Ag B was also able to withstand the strict judgement of the jury is clear proof of its excellent design quality.

717 receives Excellent Product Design Award 2022 and iF Design Award 2022

Two awards for outstanding design: the 717 on-board chronograph, honoured at the German Design Award and iF Design Award for consistent design concept. A fascinating timepiece that stylishly connects the past with the future and perfectly embodies our brand DNA.

103 Classic 12: Winner of the 'Golden Balance 2022' and the Capital Watch Award 2021 up to 5,000 Euros

In the election for the 'Golden Balance 2022' our model 103 Classic 12 reaches the 1st place in the category B. In 2021 our model 103 Classic 12 takes first place in the Capital Watch Award in the category up to 5,000 euros.

Red Dot Award: Product Design 2021 for the 105 St Sa UTC

According to the judges, the 105 St Sa UTC twins striking design features with a high level of functionality. Its sporty design and practical features make this a highly versatile timepiece.

104 St Sa I A: German Design Award 2021 winner

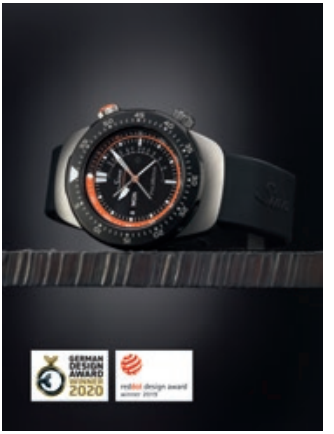
The outstanding design of the 104 St Sa I A model won it an award in the category 'Excellent Product Design 2021'. This classic pilot watch is hallmarked by a clearly structured appearance and good readability. With its sunburst decoration, the anthracite-coloured dial underscores the watch's timeless quality.

The Chronograph 936 wins the Red Dot Product Design Award 2020

The 936 impressed the judges with its robustness, useful features and consistent dial design devoted to clarity. The hour and minute hands are rhodium-coated and matt-brushed. Meanwhile, the seconds hand adds a subtle dash of red underneath the polished glass rim.

The HUNTING WATCH 3006: winner of the German Design Award 2020

Impressive, well thought-out features and practical materials make this ideal for the modern hunter. By day, it is a dress watch with a stylish strap, dark green dial and hardened steel case. By night, it becomes a hunter's tool with luminous hands, time segments and a moon phase display.



The EZM 12 scoops the Red Dot Award 2019 and the German Design Award 2020

The Red Dot Award judges praised the excellent design quality and outstanding product design, also commending the functional execution of the watch's special features for emergency doctors. The EZM 12 was awarded the German Design Award for 'Excellent Product Design 2020'.

High-quality mechanical movements

Quality manufacturers guarantee precision and reliability

In addition to technology, the heart of any SINN watch is the fascinating mechanical movement. This always guarantees, for example, the accurate display of the current time, elapsed time or date. The movement thus plays an elementary role. The demands placed on the intricate technology are therefore extremely high. The movements must function precisely and reliably in addition to being well engineered, and provide outstanding accuracy. They must also guarantee consistently high quality, which always constitutes a challenge – especially for large production volumes. That is why we rely only on selected renowned manufacturers. Long-established movement manufacturers with proven experience, with whom we have worked successfully for many years. We value these manufacturers for their flexibility, too, because they produce the movements in parts according to our design specifications or fill them, for example, with SINN special oil. But most importantly, the movements we receive from our manufacturers and build into our watches are of outstanding quality.

SZ movements, Sinn Spezialuhren zu Frankfurt am Main

This is the name given to our movement modifications. These represent the sophisticated engineering achievements that have already been put to use in various SZ movements by our highly skilled master watchmakers. In order to increase clarity and readability, we create new technical designs based on tried-and-tested movements such as the Concepto C99001. From development to series production, everything related to our SZ movements is done exclusively in-house. The service spectrum comprises the concept, design, prototype construction and pre-production samples. Following extensive testing, the SZ movements are put into series production. The result is high-quality calibres characterised by impressive technical features. Detailed information on individual SZ movements can be found at sinn.de/en.

SELLITA WATCH CO SA, La Chaux-de-Fonds, Switzerland

This independent Swiss company was founded in 1950. Sellita specialises in the development, production and assembly of proprietary mechanical movements. As a leading manufacturer with a considerable production volume, Sellita has gained a reputation in the industry for producing movements according to the highest quality standards. Strict production standards and an eye for even the finest of details allow for a certain degree of flexibility and enable us to meet individual customer requirements in exclusive complications or production volumes. Sellita offers a wide range of different high-quality calibres, with new additions expected to follow in the future.

Manufacture La Joux-Perret, La Chaux-de-Fonds, Switzerland

La Joux-Perret is a Swiss Manufacture serving numerous watchmaking Brands with its mechanical movements. Based in La Chaux-de-Fonds, La Joux-Perret houses about forty different professions spread in ten ateliers, all required to produce precision mechanical movements. With its comprehensive portfolio of modules and completes calibres, among them many complications such as chronographs and tourbillons, La Joux-Perret can fulfil all kind of movements requests, from a fully personalized realisation to important productions.

Concepto Watch Factory SA, La Chaux-de-Fonds, Switzerland

Founded in 2006, the manufactory for exclusive products specialises in the development and construction of movements and mechanisms of the highest quality.The entire bandwidth of mechanical watch components is manufactured here using state-of-the-art technology.The comprehensive product portfolio includes everything from a simple three-handed watch movement to the most elaborate complications, alarm functions, chronographs, tourbillons, minute repeaters and super-slim modules and movements.The company produces limited editions and larger quantities exclusively for various brands. Highly skilled personnel and high-performance machinery guarantee outstanding service.

ETA SA Manufacture Horlogère Suisse, Grenchen, Switzerland

The roots of the traditional Swiss company date back to 1793. Drawing on this experience, the Swatch Group company ETA SA develops and produces a wide range of calibres. Its most popular movements include the pocket watch movement Unitas featuring a manual winding mechanism, and the automatic chronograph movement Valjoux. With over 20 locations and annual production reaching into the millions, ETA SA is one of the biggest movement manufacturers in the world. Despite such huge volumes, ETA SA produces movements of consistently high quality. Which is also why experts regard the name ETA SA as being synonymous with the best materials, precision and reliability.

Soprod SA, Les Reussilles, Switzerland

Founded in 1966, this long-established Swiss company has been part of the Festina Group since 2008. The Festina Group specialises in the construction of watches, movements and movement parts. Within the Festina Group, Soprod is responsible for manufacturing high-quality movements and components. Since its foundation, Soprod has made a name for itself with the development of proprietary movements constituting the key production mainstay. In addition, Soprod develops and produces exclusive complications according to individual customer requirements. As an independent company, Soprod guarantees the highest quality for all components used in movements.

Ronda, Lausen, Switzerland

Ronda is one of the world‘s largest manufacturers of mechanical and high-precision electronic quartz movements with an innovative design. The company was founded in 1946 in Waldenburgertal. Today the company is based in Lausen. The group now has five international subsidiaries. In total, Ronda employs over 1,000 people worldwide. As a third-generation family business, Ronda places the highest value on absolute independence. The fact that Ronda has achieved a leading position in the industry is proof of its strong market orientation.

Ar-Dehumidifying Technology

Ar-Trockenhaltetechnik

Ar-Dehumidifying Technology solves a basic problem of mechanical watches: the ageing of oils due to moisture in the air contained inside, or diffusing into, the watch. The movement is mounted in a nearly anhydrous atmosphere thanks to the three Ar-Dehumidifying Technology elements: drying capsule, EDR seals and protective gas filling. Ageing processes and fogging of the crystal from sudden cold are prevented, and reliable functioning and accuracy are ensured.

Why does a water-resistant watch need dehumidifying technology anyway?
The beauty and fascination of owning a SINN watch are enhanced by the knowledge of the fine mechanical precision of this object of daily use. Nonetheless, no matter how accurately the individual components are made, friction and wear must be minimised so that they function durably. Thus high-quality synthetic oils are used to ensure optimal lubrication of the movement bearings. This remains an unavoidable process in all mechanical watches. Humidity, however, accelerates the ageing of the oils. How does moisture get into the watch? Water is always present in the atmosphere in gaseous form, which is why it can penetrate the seal systems of a watch case. Temperature changes then cause micro-condensation, permitting water to collect in liquid form on exposed parts of the movement. The consequence: the efficiency of the lubrication deteriorates. Electrochemical corrosion, wear and friction increase, reducing the amplitude of the balance. The watch runs with decreasing accuracy and must finally be reconditioned. Our engineers looked for solutions to this problem and found them in the form of Ar-Dehumidifying Technology.

Inspection glass of the drying capsule of the U2 series at 6 o'clock.

Mounted in a nearly anhydrous environment
These painstaking and technically elaborate measures are intended to keep the movement in a protective environment which is almost completely dry (anhydrous). A positive consequence of this is that it slows the ageing process of the oil, thereby extending the functional life of the movement. Also, fogging of the crystal due to sudden temperature shocks (such as immersion in cold water) can be prevented, ensuring that the watch remains clearly legible at all times.

Three-year warranty
Ar-Dehumidifying Technology is a truly pioneering achievement for mechanical wristwatches by our engineers – and a decisive advancement for all aficionados of mechanical watches. A three-year warranty is offered on all watches featuring Ar-Dehumidifying Technology.

Indication colours of the drying capsule

Pale blue
Up to 25% saturation

Light blue
Up to 50% saturation

Medium blue
Up to 75% saturation

Dark blue
Up to 100% saturation

Initial condition

Drying capsule saturated

The colour scale for the Ar-Dehumidifying Technology: the capsule continues to absorb moisture until the darkest colouration is reached.

Three technical elements

The Ar-Dehumidifying Technology works with three technical elements: drying capsule, EDR seals and protective gas filling. The drying capsules consist of five components which are pieced together in our Frankfurt workshop and then individually tested one by one.

1. The primary element: the drying capsule

The drying capsule is the most important part of the Ar-Dehumidifying Technology. The capsule is filled with copper sulphate; this absorbs moisture from the air inside the case and binds it permanently. Copper sulphate turns increasingly blue as its water content rises; the shade serves as an indicator of the drying capsule's level of saturation (see diagram). The capsule features a small viewing window of sapphire crystal glass for this purpose.

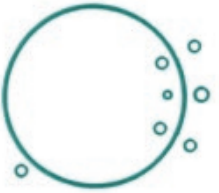
2. EDR seals

To minimise the exchange of gas between atmospheric air and that inside the case, and thus the penetration of atmospheric moisture, we only use Extreme Diffusion-Reducing (EDR) seals in watches featuring Ar-Dehumidifying Technology. These seals reduce the infiltration of moisture in the case to as little as 25% of the value permitted by conventional case seals made of nitrile rubber (NBR).

3. Superior protective gas filling

The Ar-Dehumidifying Technology is completed by a superior protective gas filling. This creates an ideal climate for the Ar-Dehumidifying Technology to function in. Only moisture diffusing from the air now has to be bound in the drying capsule. This avoids the humidity which is otherwise locked in during conventional assembly.

The titanium drying capsule. As with crowns and push-pieces, we use EDR seals here, too.



All seals are made of sealing materials that are **e**xtremely **d**iffusion **r**educing (EDR).

DIAPAL

Lubrication-free anchor escapement

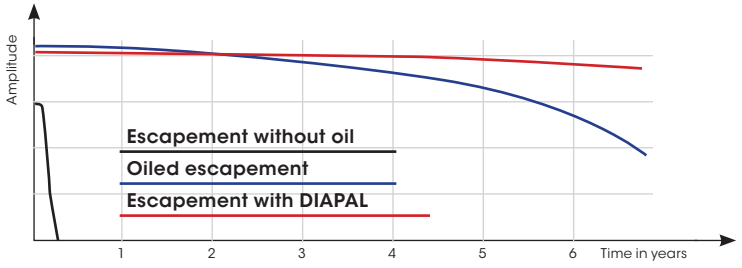
The objective of the Ar-Dehumidifying Technology is to prevent the oil from ageing. The idea behind the DIAPAL Technology goes one step further. In this case, we select special pairs of materials that work together without lubrication (!) and without causing friction, ensuring long-term accuracy of the movement and particularly of the Swiss anchor escapement.

For improved lubrication quality

To counteract the ageing processes of the oil in the watch, the movement is maintained in a dry environment filled with protective gas using our Ar-Dehumidifying Technology. The technicians, engineers and physicists at SINN are currently focusing on an even more efficient solution to this problem. Their idea: if oil isn't used, there won't be any difficulties with ageing oil. The approach based on this idea focuses on the Swiss anchor escapement. The reason for this is the special role this part of the movement plays with regard to the ageing of the oil. Empirically, the anchor escapement is the most sensitive component of the movement with regard to accuracy, i.e. the quality of the lubrication at this point has the largest impact on the accuracy of the entire movement.

In the beginning was the diamond: today we celebrate the triumphs of nanotechnology

SINN began its research on the DIAPAL Technology in 1995 with the idea of using **dia**mond **pal**lets to replace ruby ones. For conventional escapements, oil is required only to reduce friction between the ruby (pallet stone) and the steel (escape wheel). In the Swiss anchor escapement, a polished diamond surface proved to be a better friction partner than the ruby traditionally used for this purpose. Lubrication is no longer required for lasting accuracy and function. However, this combination still failed to produce acceptable oscillation amplitudes without lubrication. Thus, in 1995 SINN began testing numerous other material combinations for use in watch technology, and applied for the first patents in 2000. SINN has retained the name DIAPAL for all developments that follow on from the original diamond pallets, i.e. for all material combinations that prove suitable for helping a train wheel – especially with Swiss anchor escapement – to function smoothly over time without lubrication. Ultimately, the first nanotechnology solution to reach series production was the 756 DIAPAL.



A comparison of the Swiss escapements: unoiled, it functions for a maximum of three months. Standard lubrication leads to a significant decrease in amplitude after three to five years. During this period, the escapement with DIAPAL Technology continues to function perfectly.

HYDRO

Reflection-free under water readable

Absolutely free from fogging, pressure-resistant at any accessible diving depth and perfect readability from any angle under water – these are the unbeatable advantages of our diving watches equipped with HYDRO Technology. How does it work? The movement, dial and hands are immersed directly in a crystal-clear bath of oil. The watch is thus free from fogging, as there is no air inside the case.

The principle

In a HYDRO watch case, the movement, dial and hands are held in a crystal-clear bath of fluid with the same refractive index as that of the sapphire crystal glass. As a result, light continues to penetrate the filling liquid through the sapphire crystal even from large angles of incidence. The highly obstructive effect of mirroring (total reflection) is thus eliminated. In addition, the filling liquid is incompressible and replaces the air inside the case, which always contains moisture. This results in a number of advantages.

The fluid is also incompressible. It replaces the air inside the case which inevitably contains moisture. This yields a whole range of advantages.

Advantage: Reflection-free under water

The crystal of a conventional diver`s watch will unavoidably reflect light under water - but not a HYDRO watch. A HYDRO watch can be read from oblique angles under water, just as it can when out of water. The reason for the characteristic mirroring effect is the total reflection on the bottom of the crystal. If the optical medium of sapphire crystal is succeeded by the medium of air (looking towards the dial), the light will only be reflected and no longer refracted from a certain angle. This prevents the light from penetrating the interface between the sapphire crystal and the air-filled space containing the hands. From this angle, the effect is similar to that of looking at a mirror. The hands are no longer visible.

Replacing the air in the cavity containing the hands with a fluid which shares the same optical characteristics as the sapphire crystal glass neutralises this effect, making the watch face fully readable even at highly oblique angles.

Advantage: Completely free from fogging

The absence of any air inside the case keeps our HYDRO watches completely free from fogging. Fogging only occurs in air which contains moisture; this can condense if the temperate falls below the "dew point". Where there is no air humidity - there can be no condensation!

Advantage: pressure-resistant up to a diving depth of 5000 m

Fluids are virtually incompressible. The membrane back allows the internal pressure of the watch to adjust constantly to the external pressure. In principle, a HYDRO watch would therefore be pressure-resistant for any achievable diving depth. The pressure difference that exists in a conventional watch between the internal mounting pressure of a watch (1 bar) and the external water pressure (increase of 1 bar per 10 metres of water depth) is not even built up in a HYDRO watch. However, if diving depths of 5000 metres are exceeded, the quartz movement will be damaged by the high internal pressure of the watch. For this reason, there is a maximum diving depth up to which the watch can be guaranteed to function perfectly.

Every HYDRO watch is necessarily a quartz watch due to the oil filling, as the balance oscillation of a mechanical watch could not overcome the high damping in a liquid medium. Our HYDRO watches are always fitted with long-life lithium batteries and are certified as SINN diver`s watches by an independent test centre.

Magnetic Field Protection

Magnetfeldschutz

Magnetic fields such as those of electric motors, loudspeakers or door closers cause the Nivarox balance spring to become magnetised and adversely affect the accuracy of the watch. We solve this problem by using a protective sheath consisting of a closed, magnetically soft inner case that includes the dial, the movement holding ring and the case back. This Magnetic Field Protection minimises magnetic interference.

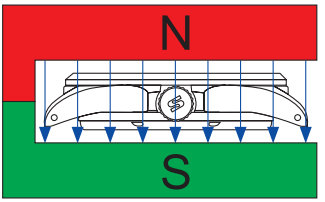
Interference of the accuracy of the watch due to magnetic fields

As early as the 1930s, watches used for special purposes were protected against magnetic fields. The electric motors of locomotives considerably interfered with the accuracy of mechanical watches. An iron shield was therefore used to protect special "railway models" from magnetic field interference. Later, Magnetic Field Protection was integrated in pilot watches due to the magnetic deflectors used in the radar screens found in airplane cockpits and ground stations. However, the restriction of Magnetic Field Protection to professionally used chronometers is proving absolute in today's world.

While the earth's magnetic field is far too weak to pose any risk, magnetic fields from electric motors, loudspeakers, door closers or other such sources can cause lasting interference with the function of a mechanical watch.

The main source of defect

Nivarox balance springs are made from a temperature-compensating material that is magnetised under unfavourable conditions. Impairments in the running of the watch are therefore the result of a magnetised hairspring, i.e. a faulty state of the watch's clocking organ. Although the modern balance spring is far superior to the older steel springs in terms of magnetic field sensitivity, as Nivarox springs are anti-magnetic in accordance with DIN 8309, this requirement allows a rate error of +/- 30 seconds per day in the case of a relatively low magnetic field load of 6 mT (milli-Tesla) or 4,800 A/m (amperes per metre) - which is a quarter of the pole strength of an ordinary household magnet. Any fine adjustment of a watch based on the chronometer standard will be destroyed in this case.



Homogeneous magnetic field. With such a field, which has the same magnitude and direction at every point, the magnetic field load is realised in accordance with DIN 8309.

SINN-study about magnetised watches

In a study of 1,000 watches by SINN's customer service department, nearly 60% of the watches received were magnetised, and half of these had severe defects caused by magnetic fields. During this study, the speed of the movement before and after demagnetisation was documented. If the speed deviation before demagnetisation was greater than 5% of the speed after demagnetisation, a defect due to magnetic fields was assumed. Magnetic field influences were also found even when the wearers weren't aware of any contact with sources of magnetic fields. As a consequence, all watches received by our customer service workshop are first demagnetised using an electromagnet.

Magnetic Field Protection

Magnetic fields can be redirected by magnetisable materials. If a hollow iron body is placed in a magnetic field, it can be observed that the majority of the field lines are bundled in the wall of the hollow body. The interior is thus largely magnetically shielded. SINN engineers utilise this principle to design a magnetic field shield. It is important that the protective sheath does not remain magnetised after being exposed to a magnetic field, as this would turn it into a source of interference. Materials that can be easily magnetised but still only have a low remanence - i.e. magnetisation that remains after exposure to a magnetic field - are called soft magnetic. Pure iron, for example, fulfils this condition very well. With the help of soft magnetic materials, our watches achieve magnetic field protection of up to 100 mT or 80,000 A/m in a magnetic stray field. The field strength here refers to the typical everyday contact of one of the two pole faces of a disc magnet. To produce this magnetic field protection, we use a closed, soft-magnetic case interior consisting of the dial, movement retaining ring and case back. The SINN trademark identifies watches featuring Magnetic Field Protection. It portrays stylised magnetic field lines and a magnetic core.

Shielding of electromagnetic pulses

Abschirmung elektromagnetischer Impulse

Electromagnetic radiation

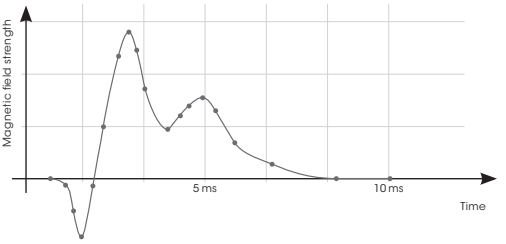
In analogue quartz movements, the gear train is driven by a so-called stepper motor. Rather than turning continuously, this little electronic motor only rotates every second by a certain angle. Like all components with a flowing variable electric current, the stepper motor of a quartz watch also generates electromagnetic radiation while running. In the case of a stepper motor, this takes the form of an electromagnetic pulse.

Shielding measures

The models of the 434 series featuring the symbol on the dial, the electromagnetic radiation (pulse) emitted by the movement is minimised. The quartz movement has a special alloy sheath which is designed to absorb the exact frequency of the movement radiation. This helps prevent for example a compass needle from jerking or an electronic timing machine for quartz watches picking up a stepper signal. The radiation emitted by the movement is 'trapped' in the case, preventing it from escaping.

Effects on humans

The effects of electromagnetism on humans is the subject of various analyses of the impact of electromagnetic radiation on the environment. Here, the focus is on the effect of electronic devices – particularly on public health. Unlike many household devices, quartz watches emit weak electromagnetic radiation. Since some people are highly sensitive to such radiation and a watch is worn directly on the body for an extended period of time, we offer shielding.



Every jump second of a quartz watch radiates an electromagnetic pulse. A control current starts flowing through the motor coil, causing the motor to rotate and generate an induced current. The graph shows exclusively magnetic components for a typical stepper "cardiogram".

Temperature Resistance Technology

Temperaturresistenztechnologie

The long-term accuracy of a watch movement crucially depends on the lubrication of its moving parts – this is particularly true at extreme temperatures. We use the special oil developed by SINN to ensure reliable functioning under even the most extreme conditions. With its outstanding properties, it provides lubrication that is highly resistant to ageing at temperatures between –45°C and +80°C.

–45 °C up to +80 °C

SINN-Special Oil

The higher the temperature, the lower the viscosity of the lubricating oil film. At low temperatures, the oil becomes more viscous, leading to increased friction throughout the movement; more energy is lost in the train wheel, the escapement and the complete balance. Consequently, the amplitude of the oscillation decreases and the watch becomes increasingly inaccurate. In conjunction with the ageing of the oil, which likewise increases the viscosity of the oil, conventional watch oils can thicken enough that the watch stops at temperatures just below the freezing point. Such watches no longer function reliably when used at lower temperatures! Only the special oil with substantially lower viscosity developed by SINN for use in extreme temperatures provides reliable long-term lubrication at very low temperatures. The composition of the oil ensures that it is still sufficiently fluid at temperatures of –45°C and below to maintain the movement's proper mechanical function. Moreover, the viscosity of the oil at +80°C does not change enough to cause the oil to run off the ruby pallets of the escapement. Our SINN special oil is a universal oil that can be used in everything from the balance bearings and the train wheel to the escapement pallets and ensures highly ageing-resistant lubrication in extreme conditions thanks to its outstanding temperature properties.

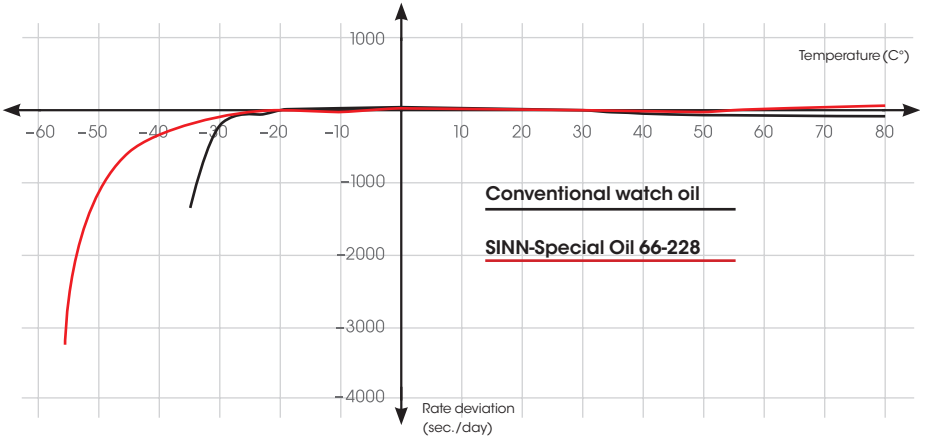
Expansion and contraction rates

Lubrication with SINN oil is essential for a SINN watch capable of withstanding extreme temperatures from –45°C up to +80°C. But oil alone isn't enough. Just as important are the expansion and contraction rates of the movement's individual components. Here's why: various materials are used in the movement of a watch and these materials respond differently to temperature expansion. This means that when the entire movement is exposed to higher temperatures, the components change in size to different extents. Some parts expand faster, others more slowly. In some cases, this can negatively influence the movement's function, as the individual components suddenly no longer fit together precisely. We counteract this negative effect by testing each individual watch in a temperature chamber. Each and every watch must meet our strict quality standards even at extreme temperatures.

Each and every watch is tested in a temperature chamber at –45°C to +80°C.

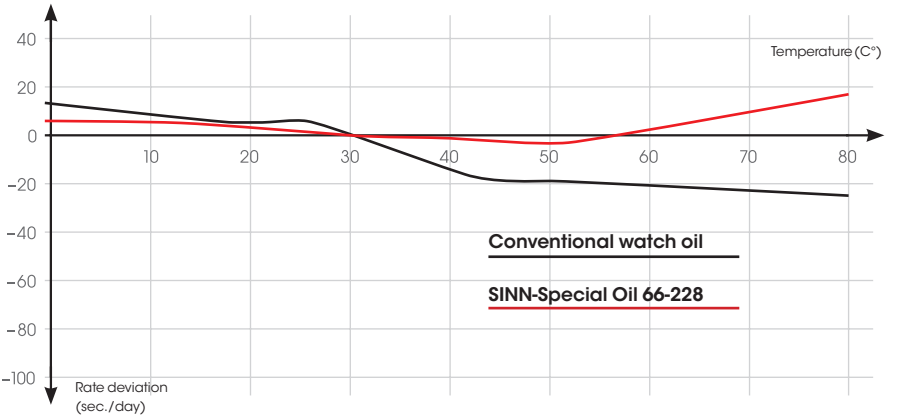
Accurate between temperatures from –60°C to +80°C.

When worn on the wrist, watches have an average operating temperature of 30°C. However, when worn above the clothing, they quickly assume the ambient temperature. Watches are significantly less accurate at temperatures below freezing. And below –30°C the accuracy is difficult to define. Watches which are lubricated with conventional watch oil generally come to a stop. Watches lubricated with SINN-Oil, by contrast, continue to run even at temperatures well below –45°C. The rate variation here, however, is relatively high; the watch loses time at a rapid rate. We guarantee the reliable functioning of enabled chronographs in a temperature range from –30°C to 80°C.



Accuracy within temperature range of 0°C to +80°C.

The second diagram is to a different scale and shows how accurate the watch remains in temperatures above 0°C using SINN-Special Oil 66-228.



TEGIMENT

Greatly increased scratch-resistance thanks to surface hardening

TEGIMENT Technology raises the hardness level of the base material, e.g. stainless steel, by a significant factor. The technology was first introduced in the 756 Duochronograph at the International Baselworld Watch and Jewellery Show in Basle in 2003, replacing the ice-hardening technique for nickel-free watch cases first presented in 2002. Originally TEGIMENT Technology was only used on stainless steel cases. The term is now used to refer to all materials with a hardened surface.

TEGIMENT Technology provides highly effective protection against scratches. The method is not, however, based on the application of a coating. Instead it is the surface of the material itself which is hardened by means of a special process, thereby creating a protective layer ("tegimentum" in Latin). The surface of any watch hardened using TEGIMENT Technology has a significantly greater level of protection against scratches than that afforded by the hardness of the base material.

The **U50 DS** with TEGIMENT Technology.

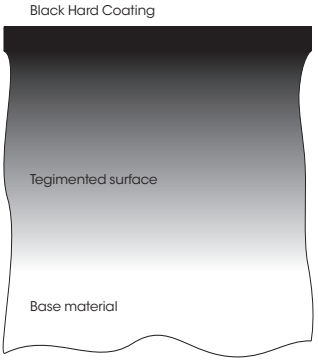
Black Hard Coating

Schwarze Hartstoffbeschichtung

We only use hard coating (PVD coatings) with TEGIMENT surfaces. Because only in this combination is it possible for our PVD paint coats to achieve their required high quality.

The hardness profile of the TEGIMENT layer is continuous, i.e. the increased hardness of the surface transitions very gradually to the basic hardness of the material itself. This makes it possible to apply a PVD coating without any risk of the otherwise familiar peeling effect from the body of the case.

Paint coatings applied using the PVD technique are exceptionally hard. They have a hardness level of up to 2,000 Vickers. The great and sudden difference in hardness between the hard coating and the base material results in disruption between the two when subjected to stress because the hard shell (PVD coating) is applied with no transition to a very soft core (case material). If a local force is applied, the base material yields and cannot provide sufficient support for the outer layer. This is called the "egg shell effect".



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

The hardness of the TEGIMENT surface, by contrast, supports the hard coating layer. This prevents the egg shell effect and dramatically reduces flaking of the paint coating. Although the paint coating applied using the PVD technique is extraordinarily hard, it may become damaged on contact with harder materials. This corresponds to the latest technological standards and is therefore unavoidable. The problem is that, unlike a solid-coloured material, a paint coating always remains vulnerable under certain conditions.

Captive Safety Bezel

Unverlierbarer Sicherheitsdrehring

The construction of the rotating bezel is extremely important in terms of safety. To prevent any risks to the life and health of the diver, the solution we use in our T50 is based on two elements.

One is the captive design of the rotating bezel. Our secure attachment differs hugely from that of conventional snap-in mechanisms. Our special design prevents the rotating bezel from becoming detached as a result of catching or being accidentally knocked, causing the set time to be lost. Series T50 incorporate a second element. In addition to the secure attachment, they are also protected against accidental rotation – a feature which goes beyond the specifications laid down in DIN 8306. This standard stipulates that it should only be possible to adjust the set time of a diving watch by turning the bezel anticlockwise on one side. A patented mechanism prevents the safety bezel of the T50 from being unintentionally rotated. This makes it impossible for the set time to be accidentally knocked and changed.

How to adjust the set time using the Captive Safety Bezel

1. To adjust the set time, first unlock the bezel. Press it down on opposite sides using two fingers. It is not possible to unlock the bezel using just one finger.

2. Hold down the bezel and turn it anticlockwise to the desired set time. Once you release the bezel, the rotation protection is reapplied and the bezel is once again prevented from being accidentally adjusted.

DIN 8330 is the standard for pilot watches

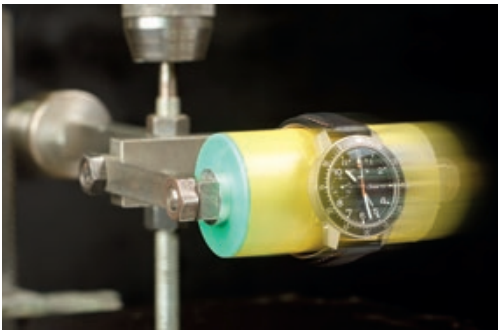
TESTAF forms the basis for the standard in pilot watches

DIN 8330 "Timekeeping - Pilot watches", which came into force in 2016, sets a new standard for reliable, functional and safe pilot watches. The watches in accordance with DIN 8330 are designed to fully replace the timekeeping instruments prescribed in aeroplanes and helicopters in the event of failure or suspected failure.

As a traditional manufacturer of pilot's watches, Sinn Spezialuhren took the initiative to develop a recognised DIN standard - the first new German watch standard in decades. It all started with the "Technical Standard for Pilot's Watches" (TESTAF), which was developed jointly with the Department of Aerospace Engineering at Aachen University of Applied Sciences and presented in 2012. Building on this, the DIN 8330 Pilot's Watches standard was developed by users, testing institutes and scientists on the initiative of SINN. Sinn Spezialuhren, Stowa, Glashütte Original, FH Aachen, Lufthansa Cargo, Airbus Helicopters (formerly Eurocopter), DNV (formerly Germanischer Lloyd) and others were involved.

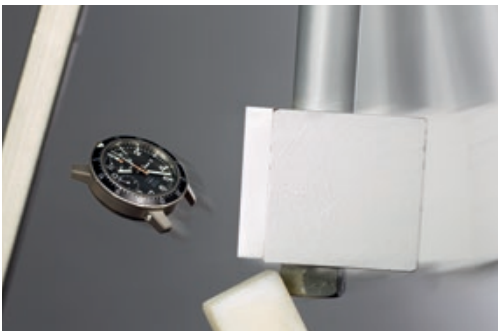
DIN 8330 defines what a pilot watch must be able to do and what loads it must withstand. These include, for example, quick and clear readability of the dial during the day and in the dark, operability even when wearing aviator gloves and accuracy not only at room temperature, but also at -15 °C and + 55 °C.

The DIN tests for physical resilience include not only a simple vacuum test, but also a multi-thousand pressure change cycle that simulates the load on the watch caused by the changing pressure during the ascent and descent of an aircraft in daily continuous flight operations. Resistance to fluids typical of flight operations (fuels, lubricants, cleaning and de-icing fluids) not only guarantees safety for ongoing flight operations, but also offers additional protection on the ground. In addition, a DIN aviation watch must withstand precisely defined vibrations, impact and centrifugal forces, temperature changes and magnetic fields. The watch must prove that it fulfils the requirements under physical stress.



103 Ti UTC IFR in a centrifuge to check the G-load. It is tested with a load of 6 g.

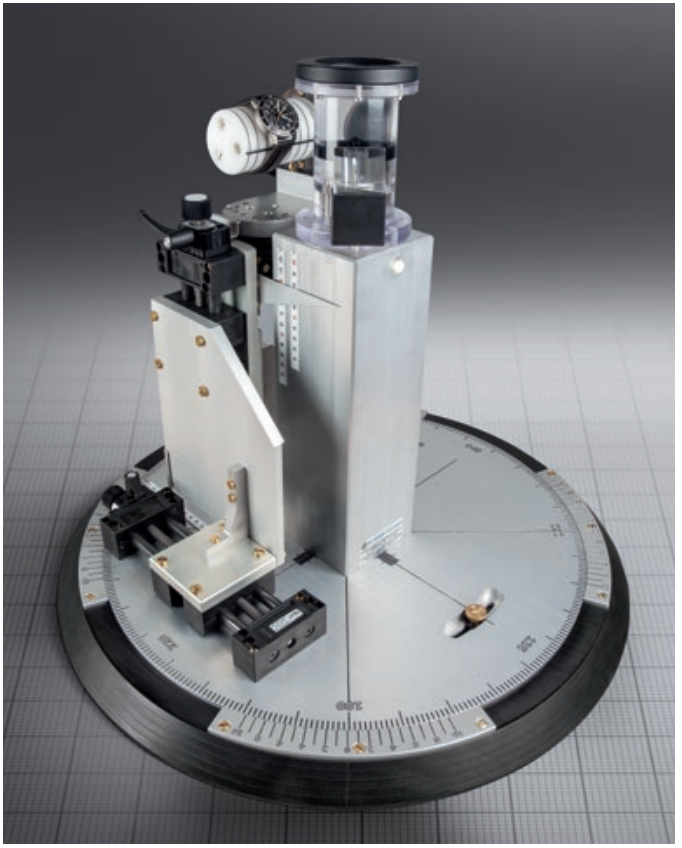
Differential pressure test in a vacuum desiccator: A pilot's watch in accordance with DIN 8330, such as the **857 UTC VFR**, must be able to withstand several thousand pressure cycles.



Test system for impact and shock resistance testing. Here, the **103 Ti IFR** is being tested.

The safety aspects of a DIN-compliant pilot`s watch include a secure strap attachment and compatibility with night vision devices. Light reflections that could distract or dazzle the pilot are minimised and possible interference with the avionics and emergency compass is largely eliminated in a test facility. All this means not only greater safety in flight operations, but also increased suitability for everyday use of watches in accordance with DIN 8330, which goes far beyond the shock resistance and water resistance of conventional watches.

The aim of DIN 8330 is for standard-compliant clocks to be recognised by licensing authorities, manufacturers and aircraft operators as a replacement for failed on-board instruments. This would guarantee an objectively higher level of safety for flight operations. The TESTAF and DIN 8330 transfer the uncompromisingly high demands placed on the equipment of aeroplanes and helicopters to wristwatches. DIN 8330 is also intended to return the term „pilot`s watch" to its origins as a watch equipped with special functional and technical features. At the same time, Sinn Spezialuhren`s initiatives for the TESTAF and DIN 8330 have emphasised its claim to develop functional, high-quality and technologically sophisticated watches. For the German watch industry, the pilot`s watch standard is an important impetus for maintaining and expanding its leading role in international competition.



The magnetic signature of a pilot watch certified according to DIN 8330 must not significantly divert the approved magnetic compasses in the aircraft through its physical proximity. The magnetic signature of a pilot watch is identified using a special test stand. A magnetic signature characteristically changes and/or influences existing magnetic fields. Using such a watch in the cockpit of an aircraft means that this characteristic could deflect the aircraft's emergency compass. To prevent this, the test watch, in this case our **103 Ti IFR**, is first demagnetised and then exposed to a homogeneous magnetic field of defined field strength. In the second stage of the test, the magnetic signature of the test watch is analysed using the test stand apparatus pictured. Additional protection may be provided by using non-magnetic materials such as titanium for the case. A timepiece which meets these design requirements will not then become a source of magnetic field interference, yet will still meet the DIN 8309 requirements for anti-magnetic watches.

SINN has diving watches independently tested and certified

Certification of water resistance, pressure resistance and functional safety in accordance with European diving equipment standards

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.


DNV

TEST CERTIFICATE


DNV

TEST CERTIFICATE

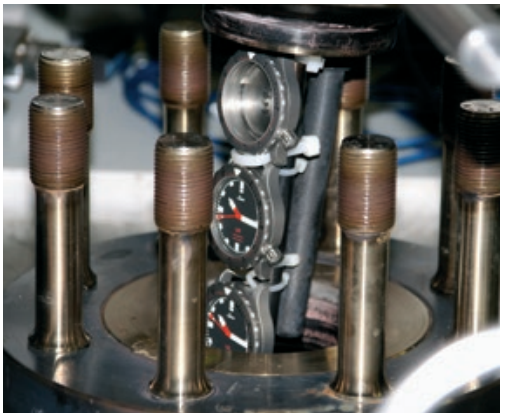
Certificates from DNV for the U1 and U50 regarding successful certification for pressure resistance and in accordance with the European diving equipment standards EN250 and EN14143. We show these two certificates here on behalf of the certified model series 206, T1, T2, T50, U2, U200, U212, UX, UX GSG9, U1000, EZM 3, EZM 13.1 and the EZM 13.

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 °C, followed by a further three hours at + 50 °C.

U 31 of the German Navy, a class 212 A submarine with fuel cell propulsion. Our submarine steel diving watches are made from the same non-magnetic steel.

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 °C and three hours at + 70 °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 °C and + 60 °C respectively due to their battery operation and oil filling.



Two U1 models and a housing are lowered into the pressurised container.

Pressure vessel fitting with 36 mm thread: The U1 easily passed the 100 bar test. 1 bar = 100,000 pascals.

Since 1997: EZM – Mission timer for professionals

An accurate timekeeping tool

Since the company's foundation in 1961, we have focused on making timepieces designed to ensure maximum functionality and precision. Careful consideration goes into each stage of development because every single watch is conceived and designed with a consistent focus on functionality. Our mission timers (EZM) have now been embodying the principle of 'form follows function' to perfection for more then 25 years.

It is therefore only logical that these striking timepieces represent a large part of our product portfolio. On the other hand, the high quality of our mission timers distinctly defines our profile – making them highly regarded by professionals (for whom they are also intended): including pilots, divers, firefighters, emergency doctors, rescue workers, special units of the German police department and armed forces such as the GSG 9, Germany's commando frogman force, KSM (Kommando Spezialkräfte der Marine), and the special unit of the German Central Customs Support Group, ZUZ (Zentrale Unterstützungsgruppe Zoll).

Readability and time measurement

We designed the first EZM for a special task force in 1997. The basic design characteristics of this EZM 1 – namely, reducing the display to an absolute minimum to ensure optimum readability and perfect time measurement – ultimately shaped the development of all subsequent mission timers. The now legendary EZM 1 paved the way for a series which has proved exceptionally successful to date.

Form follows function

The design of the mission timers is thus based on the so-called EZM principle of optimum readability. The timepieces are strictly designed for their specific purpose and function as precision tools. This makes them reliable and indispensable for those using them. Key to ensuring such functionality when developing these timepieces is our cooperation with experts – i.e. those actually using and relying on the high performance of the timepieces out in the field. Quite often these experts are faced with critical situations,

The soldiers in Germany's commando frogman force, KSM (Kommando Spezialkräfte der Marine), wear the 'UX S Combat Swimmer (EZM 2B)' version of the 2B (UX S) mission timer, which is not available for retail.

where minutes and seconds become a matter of life and death. It is these users and even more so the respective conditions in which they operate that define and determine form and functionality. The mission timers must be able to withstand the most varying external conditions, including wetness, magnetism, extreme heat and cold, major changes in temperature, vibrations, impact and knocks as well as aggressive liquids such as salt water or disinfectant. And often, all at once. They must therefore have a high level of tolerance.

Experts in technology and cases

How? Over the years, we have gradually become experts in technology and cases, manufacturing and fitting our timepieces with the best possible materials and components. To ensure we stay at the cutting edge, we constantly keep an eye on the latest industrial and scientific developments in technologies and materials. The outstanding quality of our mission timers is largely due to our ability to think outside the box, our unbelievable attention to detail and our inability to ever be satisfied with the norm.

EZM 12 – designed for emergency doctors

Since the first mission timer, a whole range of different watches from this segment have been added. Since each mission timer is equipped with the relevant functions for the operation's specific requirements, no two are the same. Yet they are united by one common principle of construction and design: focus on the key essentials in terms of outstanding readability and rapid time recording. The EZM 12 is a particularly good example of this concept. Designed as a tool for emergency service doctors, the EZM 12 enables optimum readability and measurement of critical times. The reasoning behind this is that critical decisions are made and life-saving measures performed upon arriving at the scene of an accident. Emergency doctors often refer to the 'platinum ten' (a critical patient should be stabilised, treated and transported within the first ten minutes) and the 'golden hour' (a patient should arrive at the hospital within the hour of an accident). To keep tabs on these crucial windows, the EZM 12 is equipped with a count-up inner rotating bezel. This allows emergency workers to monitor such time frames reliably, which is extremely important when call-outs can be chaotic and stressful with unclear dangers and adverse weather conditions. A second countdown rotating bezel offers the option of measuring additional time intervals which are relevant when rescuing and assisting critically injured people. These could include the administration of medication or a helicopter take-off which has to happen within a certain period of time because bad weather is approaching. Reminiscent of the air rescue service, the seconds hand of the EZM 12 is designed in the shape of a helicopter rotor and features a pulse scale. This enables easy recording of the heart rate every 15 seconds.

As time is always of the essence in an emergency, the EZM 12 allows emergency doctors to keep an eye on critical times.

EZM 1 and EZM 1.1
EZM 1: 1997–2005, designed for the Central Customs Support Group ZUZ (Zentrale Unterstützungsgruppe Zoll).

EZM 1.1: limited special edition in 2017

The display design has been reduced to an absolute minimum for optimum readability and perfect time measurement. A special feature is the centre-mounted, 60-minute stopwatch hand.

EZM 1.1 S
Limited special edition in 2022
Designed to mark 25 years of mission timers.

The display design has been reduced to an absolute minimum for optimum readability and perfect time measurement. A special feature of the watch is the SINN chronograph movement SZ01 with 60-minute stop function from the dial centre.

EZM 2 and EZM 2B
Pages 96–97
Since 1997 (EZM 2B), 1997–2005 (EZM 2)

Designed as a diving watch for the maritime unit of the Border Protection Group 9 (GSG 9).

Thanks to the use of HYDRO Technology, this mission timer is reflection-free and offers perfect underwater readability from any angle, absolute freedom from fogging and is pressure-resistant for any accessible diving depth.

EZM 3
Page 69
Since 2001

Developed for professional use by divers.

All functions and printed elements on the dial which are not directly relevant for diving are visually moderated in red.

EZM 3F
Page 69
Since 2015

Designed as a pilot watch with Magnetic Field Protection.

Featuring a countdown pilot's bezel with minute ratcheting, which can be rotated on both sides. Water-resistant and pressure-resistant to 20 bar.

EZM 4
2001 to 2005

Developed for use by fire brigades and rescue services.

The display features a pulsometer scale and a measurement scale for monitoring time limits during operations involving breathing apparatus.

EZM 5
Pages 84–85
Since 2005

Developed for professional use by divers.

The display of the 24-hour second time zone is visually moderated in red as this function is not directly relevant during dives.

EZM 6
2008 to 2018

Designed as a diving watch for professional use.

The SZ02 used here is characterised by an off-centre 60-minute counter. Flat, non-screw-fastened, large-format push-pieces ensure that chronograph functions can be triggered accurately even when the user is wearing diving gloves.

EZM 7
2010 to 2022

Developed for use by fire brigades and rescue services on the basis of German fire service regulations FwDV 7 and FwDV 500. Specially designed for task force commanders and those responsible for monitoring and checking breathing protection equipment.

The colour-coded bezel allows users to set and read off the key mission times for breathing equipment users.

EZM 8
2010 to 2018

Developed for professional use by divers.

All functions and printed elements on the dial which are not directly relevant for diving are visually moderated in red.

EZM 9
2013 to 2020

Developed for professional use by pilots.

Tested and certified to the technical standard for pilot watches (TESTAF).
Fitted with a case made of high-strength titanium and a captive pilot's bezel.

EZM 10
2011 to 2019

Developed for professional use by pilots.

The stop function is equipped with a centre-mounted jump 60-minute stop hand. The coating of orange-coloured daylight luminous paint means that the stop function stands out clearly under UV light in darkened cockpits.

EZM 12
Pages 70–75
Since 2017

Designed for the air rescue service.

The count-up inner rotating bezel enables quick and easy reading of the "platinum ten minutes" and "golden hour". Easy to clean and sterilise thanks to removable strap and rotating bezel.

EZM 13 und EZM 13.1
Pages 68–69
2014–2021 (EZM 13), since 2022 (EZM 13.1)

Designed as a diving watch for professional use.

Stop function with an off-centre 60-minute stop hand. Fitted with a captive diver's bezel with minute ratcheting.

EZM 14 and EZM 15
2013–2021 (EZM 14), 2013–2020 (EZM 15)

Designed as a diving watch for professional use.

Fitted with a captive diver's bezel with sophisticated guard to prevent accidental misadjustment. The EZM 14 is pressure-resistant to 100 bar (= 1,000 m water depth). The EZM 15 is pressure-resistant to 200 bar (= 2,000 m water depth).

EZM 16
Pages 94–95
Since 2015

Designed as a diving watch for professional use.

All functions and markings on the dial not relevant to diving are muted in red.

How a NaBo 17 ZM survived a Tornado crash

Historic cockpit clock provides design inspiration for 717 model

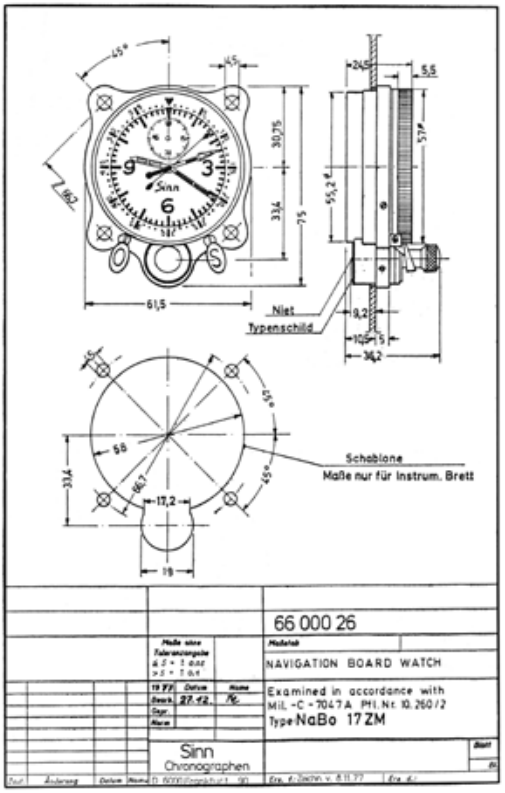
16 April 1980 was a Wednesday that will forever be remembered in the history of German military aviation. It was on this historic day that a Panavia PA-200 (P04 prototype) combat aircraft – better known as a 'Tornado' – crashed on German soil for the first time. Both test pilots working for the company Messerschmitt-Bölkow-Blom died in this tragic accident in Geiselhöring in the district of Straubing.

Sinn NaBo 17 ZM in the Tornado

At the time, the Tornado – a twin-seat multirole combat aircraft – was being used by the German, British, Italian and Saudi Arabian armed forces as a fighter-bomber, interceptor and reconnaissance aircraft. Following the first flight on 14 August 1974 at Manching, series production of 992 planes ran between 1979 and 1998. The German armed forces still haven't announced the final date for withdrawing this reliable multirole combat aircraft, with 85 of them still in service as it stands. What's really interesting is that these twin-engine jets with swing wings were equipped with two NaBo 17 ZM navigation cockpit clocks – one for the pilot and the other for the weapon systems officer. And these timepieces were supplied by Frankfurt-based watchmaker Sinn. This type of cockpit clock is still used by the military today in Tornado aircraft. The NaBo 17 model made by Sinn was also used in the F-104 Starfighter, the Breguet Atlantic – a long-range maritime patrol aircraft – and military helicopters such as the Bölkow Bo 105.

A Helmut Sinn advert from the 1970s with an image of the NaBo 17 ZM in the centre. As the advert shows, the watchmaker had already equipped a whole range of civil and military aircraft with chronographs by that point.

The Tornado featured two NaBo 17 ZM cockpit clocks made by Sinn – one for the pilot and one for the weapon systems officer.



Technical drawing of the NaBo 17 ZM from 1977.

This NaBo 17 ZM survived a Tornado crash on 16 April 1980 unscathed.

Cockpit clock with central minute counter

The German Federal Office for Defence Technology and Procurement (BWB) chose the Sinn NaBo 17 ZM for purely practical reasons. Frankfurt-based Sinn was the only manufacturer to add a central minute counter (the ZM in the model name) to its cockpit clocks. This extra feature made life easier for both the pilot and the weapon systems officer, who could quickly and easily read off stop times during a flight. Plus, the clock was designed to meet the practical requirements of the job to perfection in terms of its functionality, design and readability. Additional special features of these clocks included the start and reset buttons at the bottom of the case, as well as the orange hands of the chronograph's central stopwatch display for seconds and minutes.

Investigation by lieutenant colonel Volkart Rothweiler

It's at this point in the story that retired lieutenant colonel Volkart Rothweiler comes onto the scene. During the 1960s and 1970s, the soldier was a pilot of the Lockheed F-104 Starfighter multirole combat aircraft. With an unbelievable 269 crashes in total in this aircraft leaving 116 pilots dead, the German armed forces had no choice but to turn their attention to flight safety. Due to his in-depth training, exceptional flying skills and extensive experience, especially with the Starfighter, lieutenant colonel Volkart Rothweiler was sent off on the relevant training (in the USA and elsewhere). Following on from this work, he was appointed as the chair of the trinational committee tasked with investigating the Tornado crash of 16 April 1980 by the Flight Safety General in 1980. And his meticulous investigation revealed something quite astonishing... The pilot's NaBo 17 ZM had survived the horrific crash largely unscathed and was still working perfectly.

Respect and appreciation for the historic NaBo

Much later, at the age of 84, retired lieutenant colonel Volkart Rothweiler came across this indestructible NaBo 17 ZM when he was looking back through the things he had saved over the years. What should he do with such a historic clock? Nobody in his family showed any interest in flying. And yet retired lieutenant colonel Volkart Rothweiler wanted to show his own respect and appreciation for this special timepiece by making sure it ended up in the right hands. Having thought about it long and hard, Sinn Spezialuhren seemed the obvious choice. He wrote to Lothar Schmidt, owner of Sinn Spezialuhren, and told him the unbelievable story in a letter. And that's how the unscathed NaBo 17 ZM made its way to Frankfurt am Main along with some of the retired lieutenant colonel's other belongings, including his uniform, model airplanes and a navigation book for the unit's route from Memmingen/Allgäu to Decimomannu/Sardinia (with a 90-minute flight time).

The old uniform of the pilot who was later commissioned by the German Air Force and aviation industry to investigate flight safety, retired lieutenant colonel Volkart Rothweiler. He was the one who told Lothar Schmidt the incredible story of the NaBo 17 ZM. And that was how Sinn Spezialuhren ended up with the clock and other items that had once belonged to the retired lieutenant colonel.

From TESTAF to DIN 8330: pilot watch expertise

Anyone who's familiar with the story behind Sinn Spezialuhren will already be aware that our company was known for its wristwatches for pilots and cockpit clocks for civil and military aviation back in the 1960s. Our extensive expertise in pilot watches is what connects our present to our past. After all, it was always our goal to define the term 'pilot watch' and the associated functional requirements more clearly while developing pilot chronographs in the traditional sense.

We managed this for the first time in 2012, when we revealed the first watches with certification in line with the technical standard for pilot watches (TESTAF) initiated by us and developed by the Department of Aerospace Technology at Aachen University of Applied Sciences. The real breakthrough didn't come until 2016, though. For the first time in decades, the German Institute for Standardisation (DIN) published a new German timepiece standard based on the TESTAF standard: DIN 8330 'Timekeeping technology – pilot watches'. The main reason for developing DIN 8330 was to define a DIN pilot watch that can fully replace the prescribed instruments for time measurement in an aircraft in case of emergency. For additional context, a cockpit clock malfunction can restrict in-flight operations and even cause significant financial losses. With this in mind, DIN 8330 – similar to DIN 8306 for diver's watches – sets out the requirements and testing criteria for functionally demanding, safe and reliable pilot watches. Building on TESTAF, DIN 8330 also widens the pool of certifiable watches and features more stringent test criteria for readability, vibration stresses and resistance to liquids commonly found in aircraft.

The design and style of the NaBo 17 ZM provided the inspiration for the 717 model.

Inspiration for 717 model

The NaBo 17 ZM played an important role in the early days of Sinn Spezialuhren and it also provided the design inspiration for the 717 model. This cockpit wristwatch is the perfect proof that the Sinn Spezialuhren brand has always stayed true to its roots. The 717 model also features a central stopwatch display for seconds and minutes in the form of large orange hands, which is created using the time-honoured SINN chronograph movement SZ01. The case houses an interior pilot's bezel, which can be smoothly operated from the outer diameter of the watch. In keeping with its predecessor, the dial is distinguished by its excellent readability, even in the dark, and, thanks to the sapphire crystal glass with anti-reflective coating on both sides, under adverse lighting conditions too.

The cockpit wristwatch won the 'iF Design Award' and the 'German Design Award' in 2022.

iF Design Award and German Design Award

The 717 model was awarded two prestigious prizes in 2022. This is the first ever Sinn watch to have been recognised with the acclaimed iF Design Award. The iF Design Award has been one of the world's most celebrated names in terms of outstanding design since 1954. It is presented by the world's oldest independent design institution, iF International Forum Design GmbH. The 717 was named a winner in the 'Excellent Product Design' category at the German Design Award. The judging panel explained their choice: "The 717 cockpit wristwatch combines the functions of the historical NaBo 17 ZM navigation cockpit clock with the wearer comfort of a sporty wristwatch. With its deep black case and matching sports strap, the 717 model has a timelessly elegant and extraordinarily high-quality design."

"This fascinating and exclusive timepiece ever so stylishly links the past with the future and perfectly embodies our Sinn Spezialuhren brand's DNA down to the last detail."

Warranty statement for watches

In addition to the statutory warranty we, Sinn Spezialuhren GmbH, Wilhelm-Fay-Straße 21, 65936 Frankfurt am Main, also provide a manufacturer`s warranty on material and manufacturing defects.
The warranty period is two years, or three years, or five years, as stated on the product page.
The warranty period is calculated from the invoice date.
Our warranty is applicable worldwide.
If you wish to make a warranty claim, we will repair the watch for you at no additional cost.
Warranty claims are excluded in the event of damage caused by:
– Improper use
– Repairs or attempted repairs which were not carried out by us or our authorised partners. A list of authorised partners can be found in the Sales and Service Partners menu on our website www.sinn.de.
– Signs of wear and tear, especially to straps
– The use of force (blows, knocks, impact)
Loss of your waterproof watch's water resistance is also excluded 24 months from the date of purchase.
Please inform us – Sinn Spezialuhren GmbH by phone +49 (0) 69/97 84 14-400 or email kundendienst@sinn.de – as soon as you are aware of the potential warranty claim to avoid further damage. In order to approve the warranty, we will need the watch and proof of purchase (invoice) with a detailed description of the damage.
In the event of a warranty claim, we bear the costs of sending and returning the watch as well as the transport risk, provided that the transport is carried out by the transport company specified by us and the watch has been securely packaged. Please contact us by phone +49 (0) 69/97 84 14-400 or email kundendienst@sinn.de. Otherwise, as the customer, you will bear the costs of the shipment and the transport risk.
Any costs incurred for customs duties, import duties and other fees incurred when the watch is returned to the recipient country must be borne by the recipient.
We provide this warranty in addition to your existing statutory rights for defects. These rights are not restricted by the warranty and they can be exercised free of charge.

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WEEE reg. no.: DE 75393444
Information relating to the fulfilment of the recycling quota and the separate collection of electrical and electronic waste can be found on the website of the Federal Ministry for the Environment:
https://www.bmu.de/themen/wasser-abfall-boden/abfallwirtschaft/statistiken/elektro-und-elektronikaltgeraete/

As at: april 2024