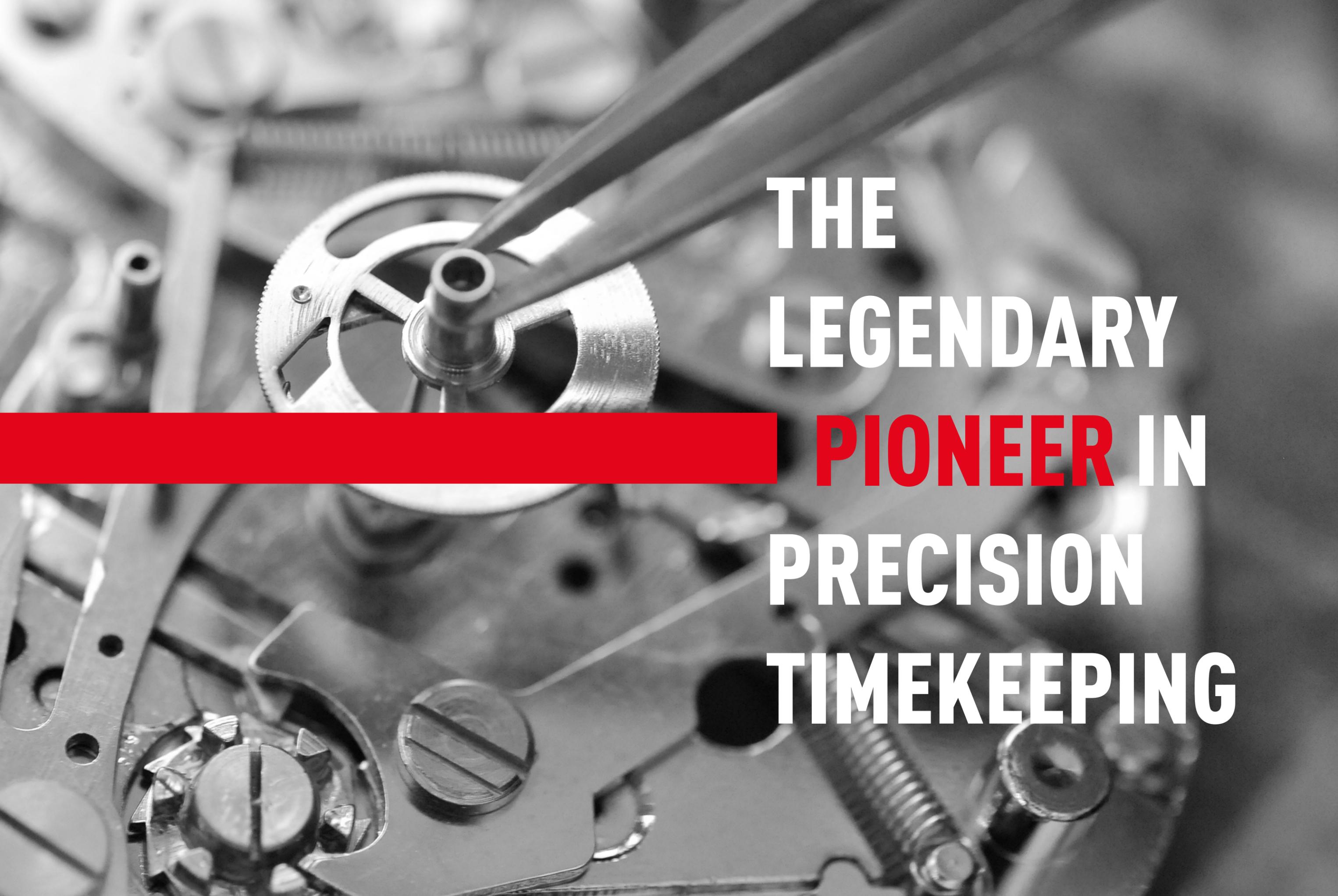




hanhart
1882



**THE
LEGENDARY
PIONEER IN
PRECISION
TIMEKEEPING**



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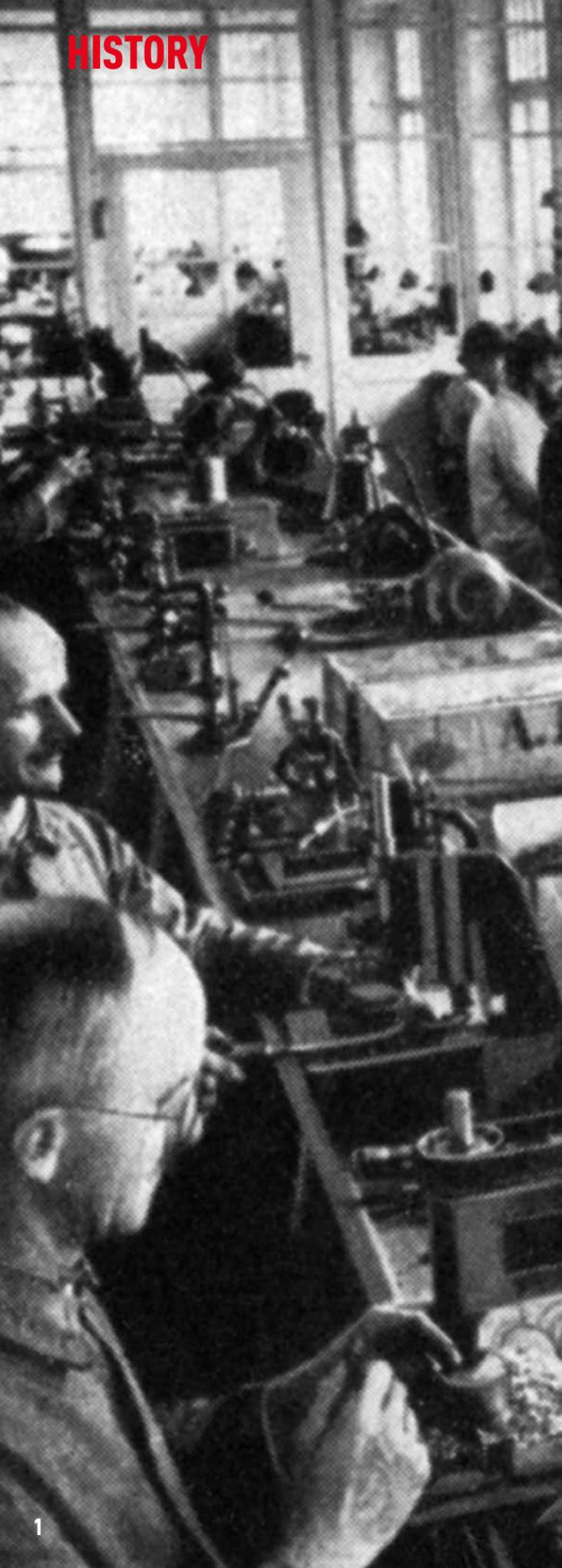
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HISTORY



1882

In 1882, the Swiss watchmaker Johann Adolf Hanhart founded his watch shop in the small town Diessenhofen before the company was relocated to Schwenningen in southern Germany in 1902. In the same year, the youngest Hanhart son Wilhelm (Willy) Julius was born, who created the first highly innovative era for the company in the 1920's.

The 1920s

Until the middle of the 20s, stopwatches came exclusively from Switzerland and were available only at very high prices. In 1924, Willy Hanhart made a breakthrough for Hanhart, launching the first affordable mechanical stopwatch worldwide and thereby pressing the start button for the company, which leads the stopwatch sector to this day. The great success of this stopwatch laid the foundations for further innovative technical developments, such as the complicated split-second stopwatch or the ultrafast oscillator with a balance wheel frequency of 360,000 vibrations per hour, which enabled Hanhart to become one of the first manufacturers of watches capable of measuring hundredths of a second.

The 1930s

Hanhart expands its product range with their first pocket and wrist watches; ever more complex new and mechanical models go into production. During the course of this expansion, a second manufacturing plant was founded in 1934 in Gütenbach in the Black Forest, which is where the company's headquarters are still based today. Then in 1938 a new era began – the first Hanhart chronograph model, the mono-pusher "Calibre 40", went into production, today a coveted piece for collectors and enthusiasts. This was followed by the legendary pilot's chronographs "Calibre 41" and "TachyTele". First-class precision in its perfected form was one of the core values of the brand already in those early days.

The 1940s

Pilots and naval officers would wear Hanhart chronographs throughout World War II. By the end of the war, the factories had been compulsorily shut down and dismantled. After the end of the war, Willy Hanhart rebuilt the Gütenbach factory, acquiring his first machines in exchange for remaining wristwatches. Watch movements and tools were collected from their secure hiding places. It was already possible to resume production of chronographs in 1949.

The 1950s

Production was already in full swing again. Hanhart began to concentrate increasingly on the manufacture of mechanical stopwatches and at the same time introduced a variety of innovative products onto the market, such as automatic timers, battery-driven mechanisms for wall clocks and wrist-watch alarms. In 1952, the head office was rebuilt in Schwenningen. In that same year, Hanhart participated for the first time in the Swiss watch fair now known as Baselworld. The company became market leader and one of the largest producers of mechanical stopwatches.

The 1960s

In 1962, Hanhart took the market by surprise with its affordable stopwatch "Amigo" – precision mechanics in a plastic case. It has proven its deserved place in the range right up to the present day.

HISTORY



Hanhart moved up a gear and commissioned a third production plant in Neukirch in the Black Forest in 1963. There is hardly a school or sports club in Germany that does not use Hanhart stopwatches for time recording.

The 1970s

In 1972 then dawned the era of the quartz clock. Hanhart set up its own plastics injection moulding plant and developed a quartz movement that has sold into the millions. Its customers included well-known companies which used the movement to fit out their own alarm clocks and watches, or else Hanhart manufactured the complete products for them, according to their own design. During these years, the range of mechanical and electronic stopwatches, quartz watches and alarm clocks being produced expanded steadily.

The 1980s

In the 1980s, the first cheap quartz movements arrived onto the market from the Far East, and pressure on prices increased. Hanhart parried this offensive from the Far East by developing a new cost-effective movement in 1981, the 3305 calibre, which went into production in 1982. Around 40 million units were sold. In 1983, Willy Hanhart's son-in-law, Klaus Eble, who had joined the firm in 1966, took over the management of the company.

The 1990s

With the renaissance of the traditional art of watchmaking in the mid-1990s, Hanhart was able to draw on its own pioneering achievements from the past: in 1997, it launched faithfully crafted reproductions of the legendary pilot chronographs from 1939. The limited edition of 2,500 copies sold out in no time at all. Further models followed and increasingly developed into exclusive objects for collectors and connoisseurs. The forerunners of today's PIONEER collection were born.

The 2000s

In 2004, a limited model "Dornier by Hanhart" was introduced. In 2007, two special editions marked the 125th anniversary of the company: "Opus 41", a manually wound chronograph made of platinum, limited to 39 pieces, and "Spirit of Racing", a high-quality twin set consisting of wrist and flyback stopwatches. The "Tachymaster" stopwatch came in 2008 to delight passionate vintage car rally drivers, giving them an entirely novel and innovative tool for measuring distance. Hanhart's place as the most important stopwatch manufacturer in Europe was thus underlined. In 2009, the mechanical chronographs in the "PRIMUS" collection were introduced, offering a contemporary interpretation of the traditional Hanhart values of highest precision and reliability in a state-of-the-art design.

The 2010s

At Baselworld 2010, Hanhart presented the first models from its "PIONEER" collection, whose design and technology take their inspiration from the legendary Hanhart chronographs. As a nod to its close connection with motor sport in the 60s and 70s, Hanhart introduced the "RACEMASTER" collection with its hundred-times more scratch-resistant HDSpro® steel case.

HISTORY

Nowadays, high-quality mechanical timepieces, manufactured in numerous individual stages at the factory in Gütenbach, continue to represent an important part of Hanhart's product line, alongside its wide range of stopwatches for industry and sport. Just as they were used in the past at every important car race, amongst other things, so today they are a popular companion of ambitious vintage car drivers.

The design and technology of the wrist chronographs are based on Hanhart's long tradition and vast expertise. They combine historic features, such as the red button – Hanhart's trademark since 1939 – with state-of-the-art technology and contemporary design.



MUSEUM



Opening hours:

Wednesdays: 1:00 – 4:00 pm
On public holidays: closed

We are delighted to offer interested parties and groups of up to 15 people a guided tour through our museum outside of opening hours. Please inquire ahead of time, by telephone on +49 (0) 7723 93 44 0 or by e-mail to info@hanhart.com

THE HANHART MUSEUM

Over 50 years after the company was founded, as part of their expansion, a second production facility was built in 1934 in Gütenbach, also in the Black Forest, to accompany their manufactory in Schwenningen. With this, Hanhart laid the foundations for production of the first legendary pilot chronographs, which are treasured and coveted by watch enthusiasts from all over the world, even today.

The entire range of mechanical and electronic stopwatches as well as the chronographs are still being manufactured in Gütenbach, the company's present day headquarters. In addition to being market leaders in the production of stopwatches, in view of its success, Hanhart has continually grown its range of wristwatches. In order to satisfy this pleasing development and best meet the high requirements and working conditions demanded by ideal production, a new watchmaking workshop was established in Gütenbach. Right next door to this workshop, in a former workshop room, a new Hanhart Museum can be found, flooded with light from its large windows, where Hanhart's long tradition is coupled with the specialist know-how of the present day.

A JOURNEY THROUGH TIME FOR WATCH LOVERS

There may be a few experts who are more au fait with the inner workings of stopwatches and chronographs than he is. However, when it comes to the history of the over 130-year-old company, he is likely to be unbeatable. The most extraordinary and exciting pieces from the company's rich tradition, which attract many interested parties to the museum, are virtually his children. Manfred Schwer, the guardian of the Hanhart Watch Museum, looks after the valuable collection. He knows all the specifics of each individual model and knows exactly how to work them.

In surroundings that are predominantly true to the industrial atmosphere of the early 20th century, visitors are every Wednesday afternoon taken on a journey through time, back to the year of the manufactory's inception. Numerous coveted exhibition pieces and enthusiast's favourites, rare collector's items as well as carefully preserved craftsman's tools, tell the history of the over 130-year-old Hanhart company, steeped in tradition.

SHOWROOM



CURRENT COLLECTION

The Hanhart showroom was opened on 17th March 2017. This is where the current Hanhart collection of exclusive wrist chronographs and high-quality mechanical stopwatches is exhibited. Here, visitors have the opportunity to receive professional advice first hand, to try out the different models and to purchase them directly. Together with the existing Hanhart Museum, the Hanhart Showroom is most definitely worth a visit for watch enthusiasts!



SPORTS & LEISURE

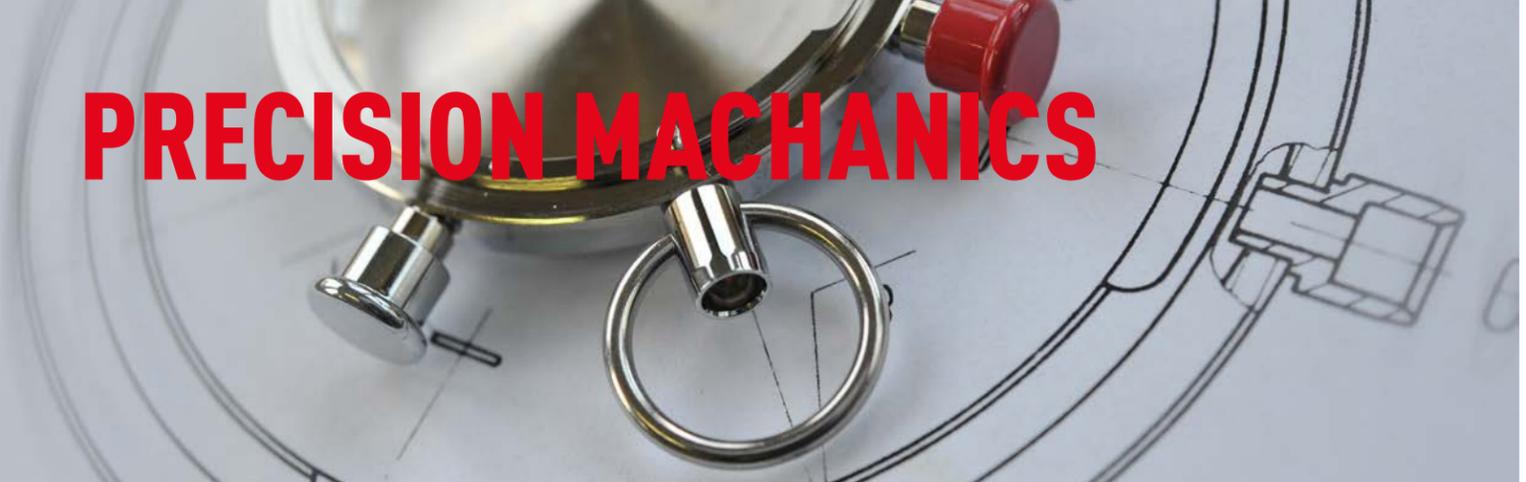


INDUSTRY & LABORATORY



RALLY

PRECISION MECHANICS



FIND THE RIGHT STOPWATCH FOR YOU

For decades, the name Hanhart has been synonymous with high-precision timepieces. As Europe's largest manufacturer of mechanical stopwatches, Hanhart to this day continues to offer an extensive product range of mechanical stopwatches for a multitude of requirements.

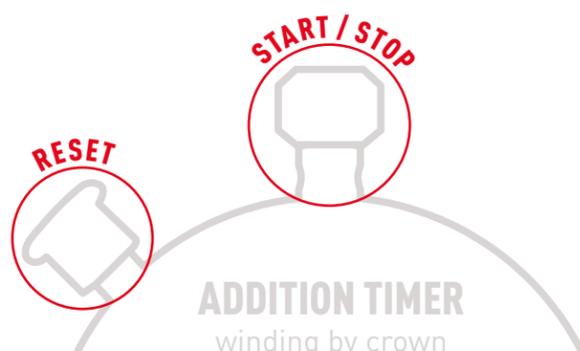
Shock-resistant manufacture movements with high-quality Swiss lever encasements or simple pin lever technology are available, with cases made from metal or ABS plastic. Certain models have special dust and water protection. We

therefore have the perfect model for every field of sports, leisure, or industry. As with all Hanhart products, our mechanical stopwatches are also guaranteed for 24 months. The symbols beside illustrate the selection criteria for you. However, before these criteria are relevant, the desired functions should be defined first. Depending on the need in the fields of application, the mechanical Hanhart stopwatches are equipped with the following functions (see also the drawings below):



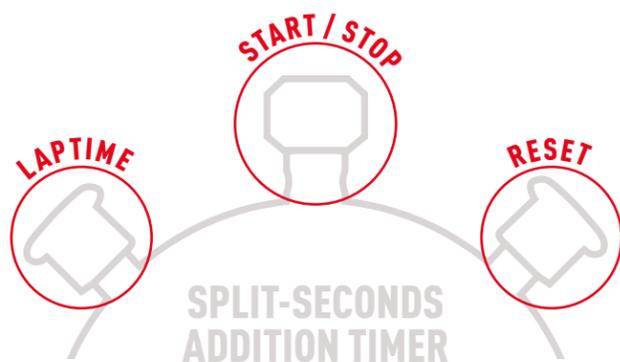
CROWN STOPWATCH

Simple time measurement with no interrupt option, i.e. start, stop and zero-setting via crown.



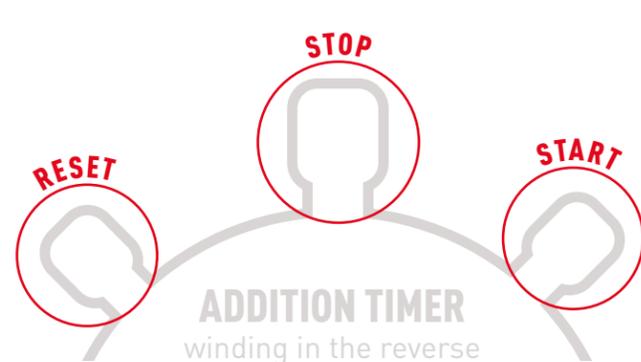
ADDITION TIMER
winding by crown

For time measurement with interrupt option, i.e. start and stop by crown, zero-setting via side button; Flyback (Tempo) over the left button optional on all models.



SPLIT-SECONDS
ADDITION TIMER

For time measurement with interrupt option, drag indicator for split time measurement; Start and stop by crown, stop the split time, reset and zero-setting with drag indicator over the right button; Flyback (Tempo) optional on all models.



ADDITION TIMER
winding in the reverse

For time measurement with interrupt option, i.e. start by the green, stop by the red and zero-setting by the white or black button; Flyback (Tempo) standard on all "Amigo" models. The winding mechanism for the shock-protected pin lever movement is located on the reverse.

GLOSSARY & SYMBOLS



FLYBACK

also known as tempo-switching

Makes it possible to instantaneously set the stop hand to zero whilst a time measurement is in progress at the press of just one button. After the push piece is released, a new measurement is started immediately. The otherwise necessary steps of "stop", "reset to zero" and "start" are here combined into one single action.



PIN LEVER STYLE

1 or 7 jewels depending on the model

The pin lever escapement with shock-resistant balance wheel is a very robust and reliable technology. It guarantees superb accuracy that will last for decades. It is considered a more cost-effective escapement mechanism, where instead of the otherwise usual pallet jewels; steel pins sitting perpendicular to the escapement are used.



SWISS LEVER ESCAPEMENT

7, 9 or 11 jewels depending on the model

The Swiss lever escapement mechanism (2 jewels on the lever) and the shock-resistant balance wheel increase the accuracy and lifespan of these mechanical precision stopwatches. We use the Swiss lever escapement for stopwatches that will run for long periods and/or for ultrafast oscillators.



JEWELS

Functional jewels of a watch

They serve to reduce friction as well as reduce wear. These functional jewels were formerly made of real rubies and diamonds. Today synthetic rubies are used.



WATER & DUST PROTECTION

All models are splash-proof and dust-proof. Models with this symbol are waterproof.



INDUSTRY MODEL

Particularly robust model for use in laboratories and industrial companies.



ACID-RESISTANT

Models with metal handles and mineral glass are particularly suitable for handling corrosive substances in industrial and laboratory use.

FIELDS OF APPLICATION



SPORTS, SCHOOL & LEISURE

Proven and functional timepieces with an ideal price-performance ratio for the needs of club-, school- and recreational sports



INDUSTRY & LABORATORY

Particularly robust and adapted to the requirements of industry and laboratory stop watches



RALLY & OLDTIMER

High-quality and noble companion for ambitious rally fans. Applicable for the complete CLASSICTIMER collection

CROWN STOPWATCH IN METAL CASE



All models have a diamond-cut, chrome-plated and polished brass case. All models are protected against shock, dust and water.

These models have additional case seals to give extra protection against dust and water.

ROBUST 100

Precision mechanics with mineral glass and metal crown.

With this special model, Hanhart has taken account of the requirements of industry and craftsmen. The glass parts are resistant to scratching and acid. The metal crown is extremely resistant to solvents and thinners.

Especially suitable for use in the chemical industry, paint workshops or photographic laboratories.

PULSE/BREATHING RATE

Specially for measuring pulse and breathing rate. Based on 15 pulse beats or 5 breaths.



112.0101-00

Pin lever style, 7 Jewels
1/5 Sec. 30 Min.
Case: 55 mm, Weight: 120 g



112.0201-00

INDUSTRY MODEL
Pin lever style, 7 Jewels
1/100 Min., 30 Min.
Case: 55 mm, Weight: 120 g



112.0301-00

INDUSTRY MODEL
Pin lever style, 7 Jewels
1/5 Sec. + 1/100 Min., 30 Min.
Case: 55 mm, Weight: 120 g



112.0401-00

Pin lever style, 7 Jewels
1/10 Sec., 15 Min.
Case: 55 mm, Weight: 120 g



115.0104-05

ROBUST 100
Pin lever style, 7 Jewels
1/5 Sec., 30 Min.
Case: 55 mm, Weight: 135 g
Mineralglass, Metal crown



112.7001-00

PULSE / BREATHING RATE
Pin lever style, 7 Jewels
1/10 Sec., 30 Min.
Case: 55 mm, Weight: 120 g





111.0117-00

Pin lever style, 1 Jewel
1/5 Sec. 30 Min.
Case: 55 mm, Weight: 75 g



111.0217-00

INDUSTRY MODEL
Pin lever style, 1 Jewel
1/100 Min. 30 Min.
Case: 55 mm, Weight: 75 g

CROWN STOPWATCH IN ABS-CASE

As well as its stopwatches in metal cases, Hanhart also offers more inexpensive crown stopwatches in functional ABS plastic cases with pendant ring. Very light-weight and easy to handle.

ADDITION TIMER IN METAL CASE

For time measurement with interrupt option, i.e. start and stop by crown, zero-setting via side button; Flyback (Tempo) over the left button optional on all models.

All models have a diamond-cut, chrome-plated polished brass case. All models are protected against shock, dust and water. The models with lever escapement have additional case seals to give added protection against dust and water.

The models with Swiss lever escapement offer additional dust and water protection thanks to additional case seals.



122.0101-00

Pin lever style, 7 Jewels
1/5 Sec. 30 Min.
Case: 55 mm, Weight: 120 g



122.0201-00

INDUSTRY MODEL
Pin lever style, 7 Jewels
1/100 Sec. 30 Min.
Case: 55 mm, Weight: 120 g



111.0317-00

INDUSTRY MODEL
Pin lever style, 1 Jewel
1/5 Sec. + 1/100 Min. 30 Min.
Case: 55 mm, Weight: 75 g



111.0417-00

Pin lever style, 1 Jewel
1/10 Sec. 15 Min.
Case: 55 mm, Weight: 75 g



122.0301-00

INDUSTRY MODEL
Pin lever style, 7 Jewels
1/5 Sec. + 1/100 Min. 30 Min.
Case: 55 mm, Weight: 120 g



122.0401-00

Pin lever style, 7 Jewels
1/10 Sec. 15 Min.
Case: 55 mm, Weight: 120 g





125.0104-00

ROBUST 200

Pin lever style, 7 Jewels
1/5 Sec. 30 Min.
Case: 55 mm, Weight: 135 g
Mineral glass, Metal crown & -pusher



122.6401-00

ALLSPORT

Pin lever style, 7 Jewels
1/5 Sec. 60 Min.
Case: 55 mm, Weight: 120 g



185.7901-00

MEGA MINUTE

Pin lever style, 7 Jewels
1/5 Sec. 60 Min.
Case: 55 mm, Weight: 125 g



**ADDITION TIMER
IN METAL CASE**

ROBUST 200

Precision mechanics with mineral glass, metal crown and button. With this special model, Hanhart has taken account of the requirements of industry and craftsmen. The glass parts are resistant to scratching and acid. The metal buttons and crowns are extremely robust and resistant to solvents and thinners. Especially suitable for use in the chemical industry, paint workshops or photographic laboratories.

ALLSPORT

Universal referee's stop watch. Scale goes up to 60 min. 20, 35, 45 and 60 min. marked in yellow.

MEGA MINUTE

Stopwatch with sprung central minutes hand for measuring up to 60 minutes. Excellent readability thanks to double-sized minute scale in contrasting colour, and sprung minutes hand. All models have precision lever movements (7 jewels). Shockprotection, additional dust and water protection. All models have a diamond-cut, chrome-plated and polished brass case.



**ADDITION TIMER
IN ABS-CASE**

For time measurement with interrupt option, i.e. start and STOP by crown, zero-setting via side button; Flyback (Tempo) over the left button optional on all models.

As well as its stopwatches in metal cases, Hanhart also offers more inexpensive addition timers in functional ABS plastic cases. Very lightweight and easy to handle.



121.0117-00

Pin lever style, 1 Jewel
1/5 Sec. 30 Min.
Case: 55 mm, Weight: 80 g



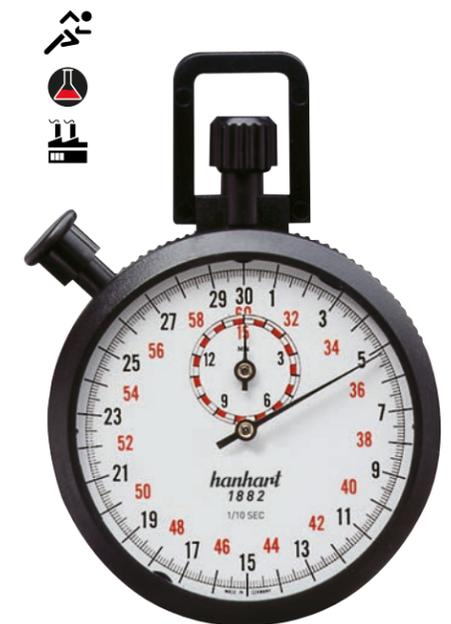
121.0217-00

INDUSTRY MODEL
Pin lever style, 1 Jewel
1/100 Min. 30 Min.
Case: 55 mm, Weight: 80 g



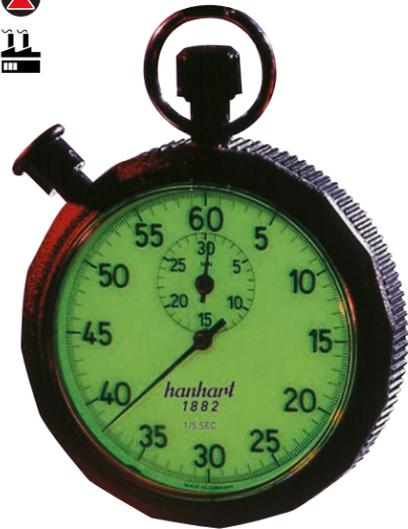
121.0317-00

INDUSTRY MODEL
Pin lever style, 1 Jewel
1/5 Sec. + 1/100 Min. 30 Min.
Case: 55 mm, Weight: 80 g



121.0417-00

Pin lever style, 1 Jewel
1/10 Sec. 15 Min.
Case: 55 mm, Weight: 80 g



121.1515-00

LUMEN

Pin lever style, 1 Jewel
1/5 Sec. 30 Min.
Case: 55 mm, Weight: 80 g



141.0134-00

AMIGO

Pin lever style, 1 Jewel
1/5 Sec. 30 Min.
Case: 55 mm, Weight: 85 g

ADDITION TIMER IN ABS-CASE

LUMEN

For use in industry and, especially, in laboratories, Hanhart offers two watches in its precision mechanics range with luminous dials. Once the special dial has been "charged" with light (takes approx. 1 hr.), the face will glow in the dark for approx. 3-4 hours so it is clearly readable.

This requires no additional energy or radiating materials. This useful property is achieved by using an innovative plastic material containing lightstoring pigments. The practical ABS case of the "Lumen" has additional dust and water protection.

In a special production process, the glass and the glass fixing ring are moulded together and then firmly screwed to the case.

AMIGO

The "Amigo" is the classic among the more inexpensive addition timers in the mechanical range.

The winding mechanism for the shock-protected pin lever movement is located on the reverse.

The robust ABS case comes with a cord for hanging round the neck.

SPLIT-SECONDS ADDITION TIMER IM METAL CASE

For time measurement with interrupt option, drag indicator for split time measurement; Start and stop by crown, stop the split time, reset and zero-setting with drag indicator over the right button; Flyback (Tempo) optional on all models.

All models have a diamond-cut, polished, chrome-plated brass case.

All models feature a lever escapement with 7 jewels. They are shockresistant and have additional dust and water protection.



135.0101-0S

Pin lever style, 7 Jewels
1/5 Sec. 30 Min.
Case: 55 mm, Weight: 130 g



135.0201-0S

INDUSTRY MODEL

Pin lever style, 7 Jewels
1/100 Min. 30 Min.
Case: 55 mm, Weight: 130 g



141.0434-00

AMIGO

Pin lever style, 1 Jewel
1/10 Sec. 15 Min.
Case: 55 mm, Weight: 85 g



141.6434-00

AMIGO

ALLSPORT

Pin lever style, 1 Jewel
1/5 Sec. 60 Min.
Case: 55 mm, Weight: 85 g
20,35,45 und 60 Min. marked yellow



135.0301-0S

INDUSTRY MODEL

Pin lever style, 7 Jewels
1/5 Sec. + 1/100 Min. 30 Min.
Case: 55 mm, Weight: 130 g



135.0401-0S

Pin lever style, 7 Jewels
1/10 Sec. 15 Min.
Case: 55 mm, Weight: 130 g





135.0101-5S

Pin lever style, 7 Jewels
1/5 Sec. 30 Min.
Case: 55 mm, Weight: 120 g
Metal crown & Metal pusher

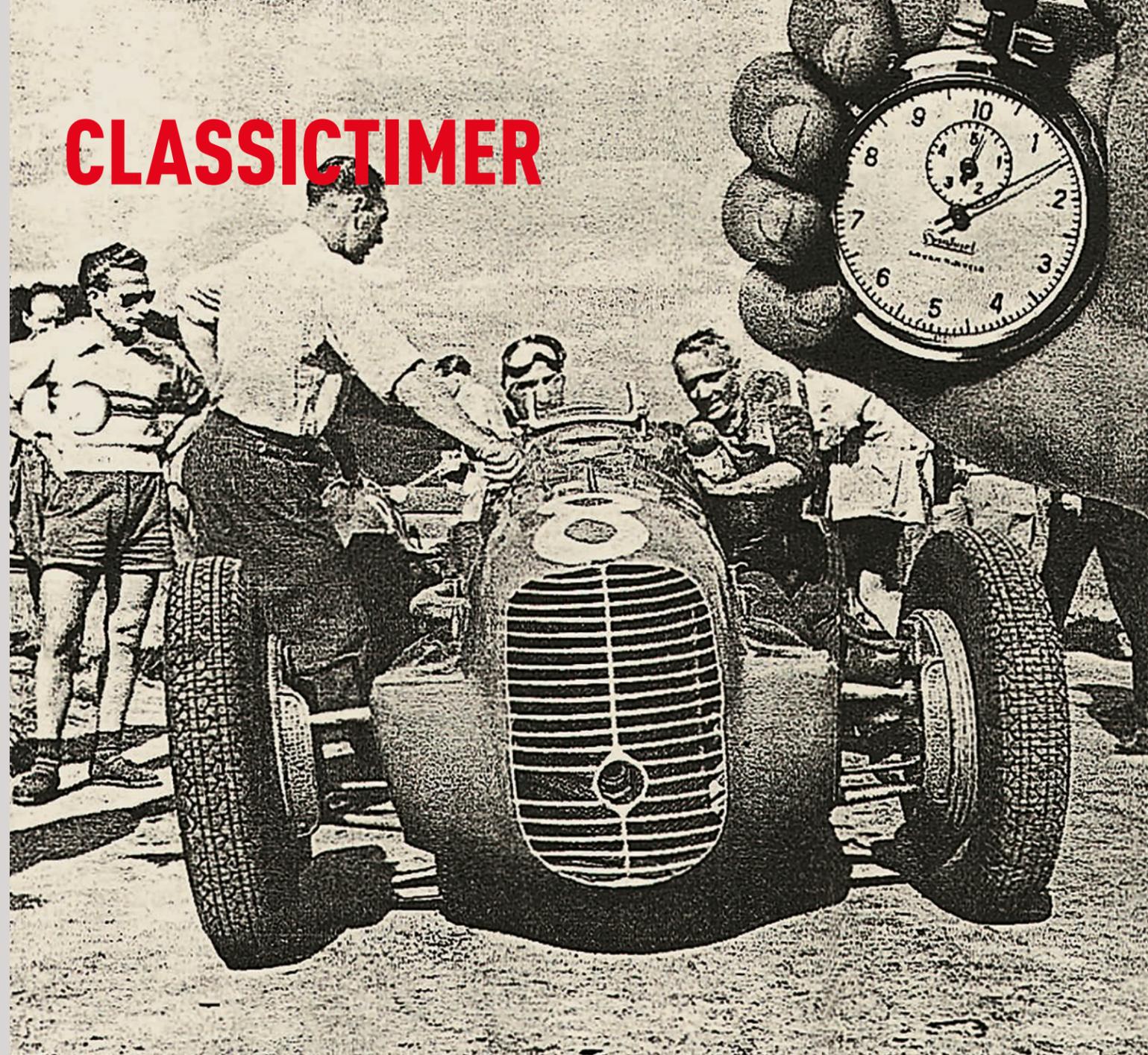


135.4101-5S

Pin lever style, 7 Jewels
1/5 Sec. 30 Min.
Case: 55 mm, Weight: 120 g
Metal crown & Metal pusher

SPLIT-SECONDS ADDITION TIMER IN METAL CASE

CLASSICTIMER



CLASSICTIMER - fine collector's items for ambitious vintage car drivers and rally fans

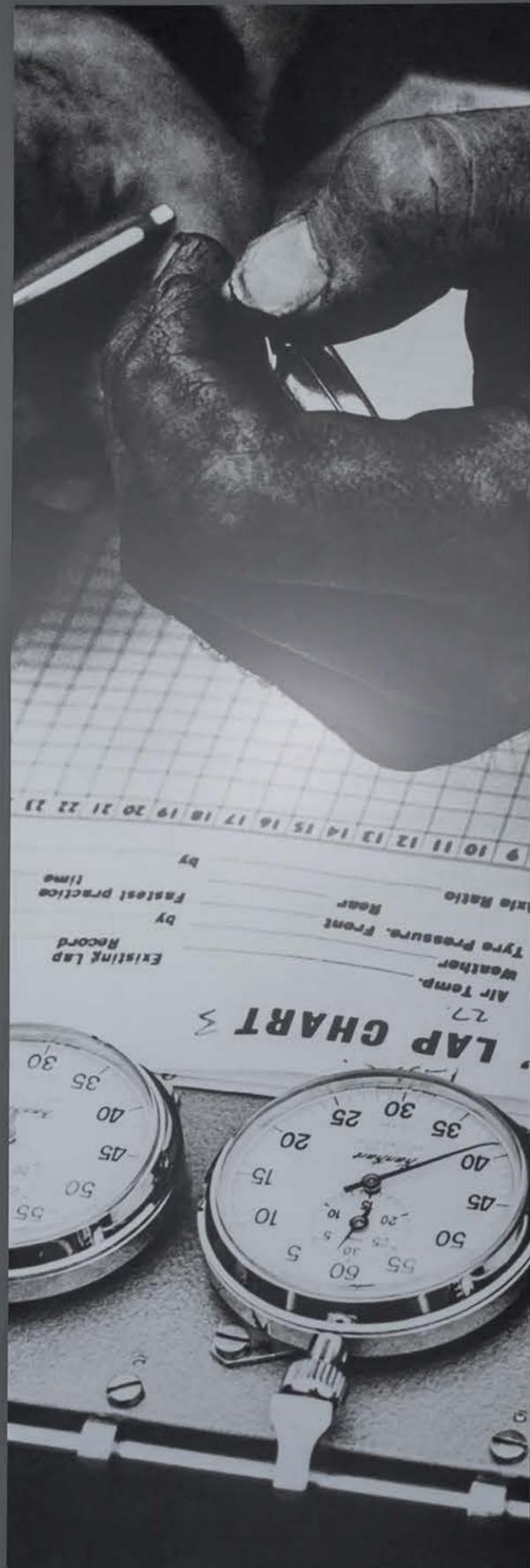
Since Hanhart produced the first affordable stopwatch in 1924, the company quickly established itself as the most important German manufacturer and market leader for mechanical and electronic timepieces. Hanhart became a global player within the last century, when Hanhart stopwatches were considered as required equipment for every referee for major sports events and car racing competitions.

Today the high quality mechanical CLASSICTIMER collection has become coveted collector's items and highly esteemed rally companions for ambitious vintage car drivers and offer authentic timekeeping. This exclusive collection offers a wide range of classic edition

timers, split-seconds edition timers with or without flyback function, and edition timers with an extra-large jumping central minute and practical flyback functions. The collection is completed by pocket watches, which are based on the timeless design of the typical Hanhart pocket watches. The chromium-plated brass case with traditional finish is polished and features a flat or fluted bezel with red marker and a red comfort pusher.

An elegant addition for any classic car: All stopwatches and pocket watches can be installed easily into the dashboard plates for one, two or three watches. The „Slide in“ technology with its refined mechanics allows for easy installation and removal.





CLASSICTIMER

Noble collectibles for rallye and Oldtimer fans in highest Hanhart-Quality

HIGHLY PRECISE IN-HOUSE MANUFACTURE MOVEMENT

Accurately adjusted to meet the high demands of rallying. The réglage of the noble timepieces will gladly be adjusted to an even higher accuracy by our competent watchmakers according to the wishes of the owner.

Strictly tested chrome-plated brass body with excellent finish, polished to a high gloss.

HIGH QUALITY ROTATING BEZEL

Additional navigation aid for the pilot:

When starting, the zero point of the bezel must be on the minute hand be aligned so that the travel minutes can be counted. If a planned route need directional changes after a certain time the rotating bezel can be used to mark when it is time to pay attention to various reference points on the route.

ROBUST MINERAL GLASS

20 times more scratch-resistant than standard Plexiglas.

THE RED CONVENIENCE BUTTON

The typical Hanhart characteristic, which is iconic for the high-quality Hanhart wrist chronograph, also characterizes the models of the CLASSICTIMER collection.

SHAPED ACCESSORIES

With a tasteful dashboard plate made of polished stainless steel for one, two or three watches, the CLASSICTIMER stopwatches can be easily attached to the dashboard of the vehicle. Who prefers the high-quality timekeeper as a desk set, finds in the associated leather-covered table stands the ideal complement.

GERMAN MANUFACTURES SEAL

This seal is considered as an award by companies that are rightly referred to as a manufactory. It also serves as consumer protection and quality feature for high-quality manufactured products. In addition to the vote in the committee, the special certification process includes a factory tour, which took place in the spring of 2017 at Hanhart. The following criteria are taken into account: domicile and own production in Germany, owner-managed company, company size between 5 and 200 employees, a minimum of manual work of at least 50% and training of qualified junior staff. Hanhart has fully met these factors in the field of stop watches!



CLASSIC ADDITION TIMER

MOVEMENT

- Mechanical in-house manufacture movement
- Anchor escapement
- 7 jewels

FUNCTIONS

- Addition timer
- 1/5-second timing
- 30-minute counter

CASE

- Chrome-plated brass, polished
- Flat bezel
- Red convenience button
- Mineral glass
- Diameter 55 mm
- Splash-proof

DIAL OPTIONS

Black	125.4001-90
Beige	125.3901-90



SPLIT-SECONDS ADDITION TIMER

MOVEMENT

- Mechanical in-house manufacture movement
- Anchor escapement
- 9 jewels

FUNCTIONS

- Split-seconds addition timer
- 1/5-second timing
- 30-minute counter

CASE

- Chrome-plated brass, polished
- Flat bezel
- Red convenience button
- Mineral glass
- Diameter 55 mm
- Splash-proof

DIAL OPTIONS

Black	135.4001-90
Beige	135.3901-90



SPLIT-SECONDS ADDITION TIMER WITH FLYBACK

MOVEMENT

- Mechanical in-house manufacture movement
- Anchor escapement
- 9 jewels

FUNCTIONS

- Split-seconds addition timer
- Flyback function
- 1/5-second timing
- 30-minute counter

CASE

- Chrome-plated brass, polished
- Fluted rotating bezel
- Red convenience button
- Mineral glass
- Diameter 55 mm
- Splash-proof

DIAL OPTIONS

Black	135.4060-8E
Beige	135.3960-8E



MEGAMINUTE ADDITION TIMER WITH FLYBACK

MOVEMENT

- Mechanical in-house manufacture movement
- Anchor escapement
- 7 jewels

FUNCTIONS

- Addition timer
- Flyback function
- 1/5-second timing
- Large sprung central minutes hand
- Measurement range up to 60 min.

CASE

- Chrome-plated brass, polished
- Red convenience button
- Mineral glass
- Diameter 55 mm
- Splash-proof

VARIANTS SMOOTH BEZEL

Black	185.8701-9E
Beige	185.8801-9E

ROTATING BEZEL WITH RED MARKING

Black	185.8760-8E
Beige	185.8860-8E



LONG-DISTANCE HOUR COUNTER

MOVEMENT

- Mechanical in-house manufacture movement
- Anchor escapement
- 11 jewels

FUNCTIONS

- 1/5-Sekunden-Messung
- Springender Minutenzeiger aus dem Zentrum
- 10-Stunden-Zähler

CASE

- Verchromtes Messing, poliert
- Roter Rückstelldrücker
- Mineralglas
- Durchmesser 55 mm
- Spritzwassergeschützt

VARIANTS

SMOOTH BEZEL

Black	126.7201-90
Beige	126.7301-90

ROTATING BEZEL WITH RED MARKING

Black	126.7260-80
Beige	126.7360-80



TACHYMASTER 30 / 40 / 50

MOVEMENT

- Mechanical in-house manufacture movement
- Anchor escapement
- 9 jewels

FUNCTIONS

- Time-traverse counter for walking speeds
- Drag indicator

CASE

- Chrome-plated brass, polished
- Red convenience button
- Mineral glass
- Diameter 55 mm
- Splash-proof

VARIANTS

Tachymaster 30 (30 km/h)
135.2665-8T

Tachymaster 40 (40 km/h)
135.2765-8T

Tachymaster 50 (50 km/h)
135.2865-8T



POCKET WATCHES

MOVEMENT

- Manual winding movement
- Unitas 6497
- Anchor escapement
- 17 jewels

FUNCTIONS

- Hours & minutes
- Small second

CASE

- Chrome-plated brass, polished
- Mineral glass
- Diameter 55 mm
- Splash-proof

VARIANTS

SMOOTH BEZEL

Black	850.4001-90
Beige	850.3901-90

ROTATING BEZEL WITH RED MARKING

Black	850.4060-80
Beige	850.3960-80



POCKET WATCHES

MOVEMENT

- Manual winding movement
- Unitas 6497
- Anchor escapement
- 17 jewels

FUNCTIONS

- Hours & minutes
- Small second

CASE

- Black chrome-plated brass
- Mineral glass
- Diameter 55 mm
- Splash-proof

VARIANTS

SMOOTH BEZEL

Black	850.4040-80
-------	-------------





TABLETOP-SET I

190.0270-80

The Tabletop-Set contains a tabletop stand, a dashboard plate for two watches, a stopwatch and a pocket watch.

SPLIT-SECONDS ADDITION TIMER WITH FLYBACK

Mechanical manufacture movement, 9 jewels, 1/5-second timing, 30-minute counter, fluted rotating bezel

POCKET WATCH „BOARD TIME“

Manual winding movement Unitas 6497, 17 jewels, diameter 55 mm, fluted rotating bezel

DASHBOARD-PLATE

Stainless steel polished

TABLETOP-STAND

With black leather

TABLETOP-SET II

ALL BLACK 190.0240-80

The Tabletop-Set contains a tabletop stand, a dashboard plate for two watches, a stopwatch and a pocket watch.

SPLIT-SECONDS ADDITION TIMER WITH FLYBACK

Mechanical manufacture movement, 9 jewels, 1/5-second timing, 30-minute counter, flat bezel, black chrome-plated brass

POCKET WATCH „BOARD TIME“

Manual winding movement Unitas 6497, 17 jewels, diameter 55 mm, flat bezel, black chrome-plated brass

DASHBOARD-PLATE

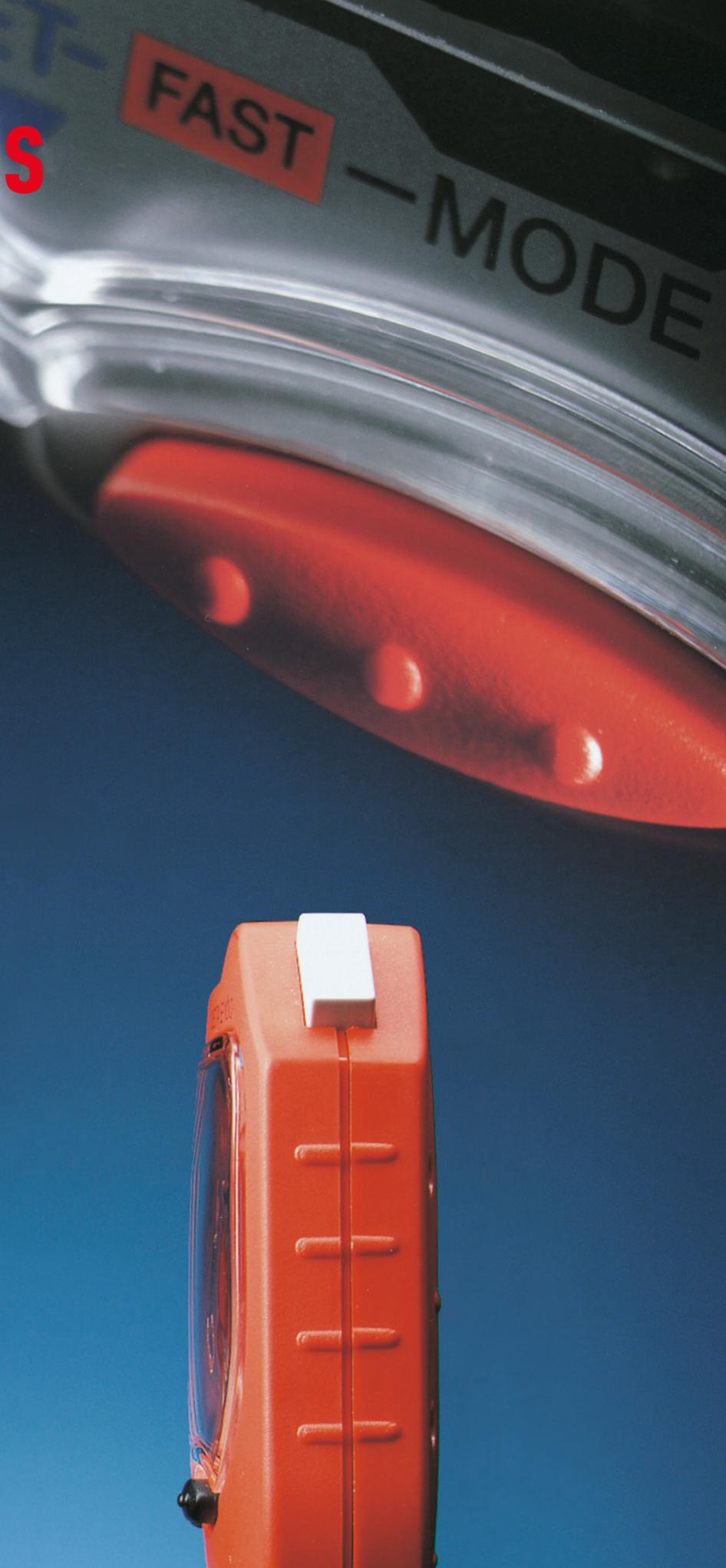
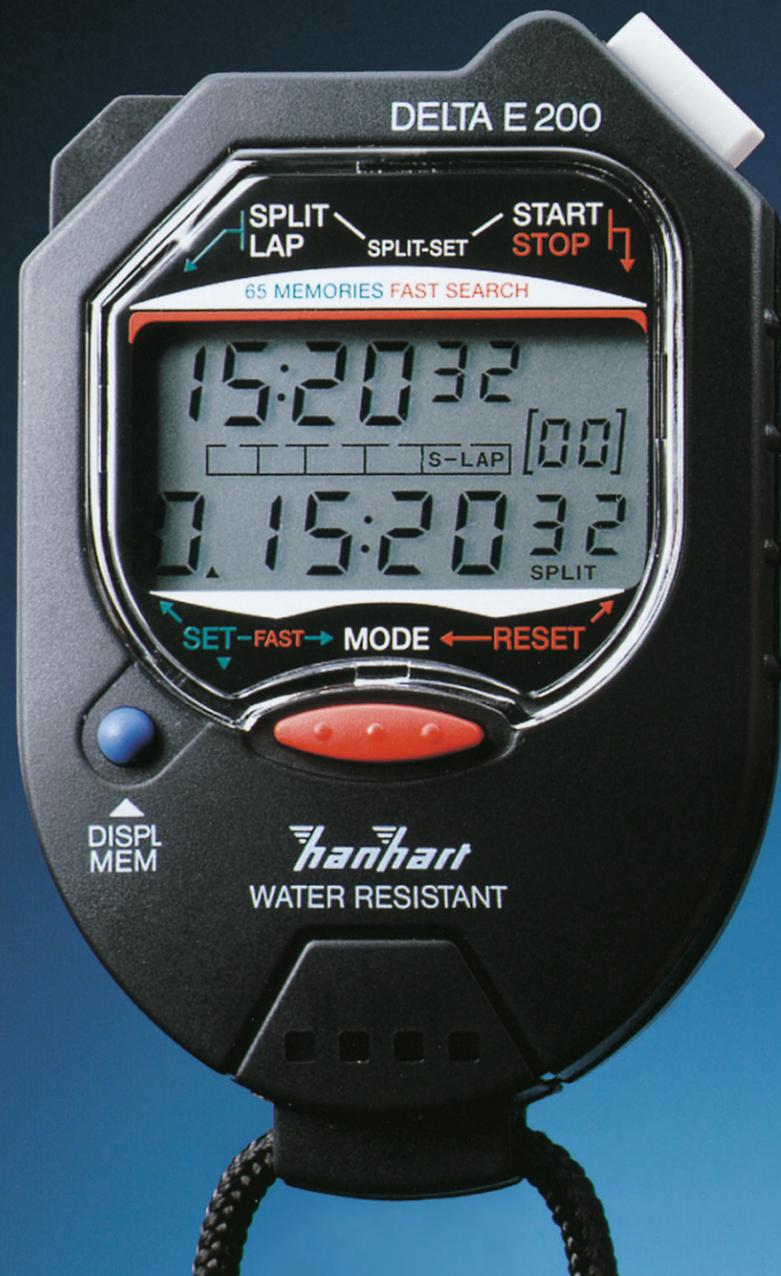
Black chrome-plated brass

TABLETOP-STAND

With black leather



QUALITY ELECTRONICS



QUALITY ELECTRONICS WITH INNOVATIVE TECHNOLOGY

Hanhart has been one of the leading producers of electronic stopwatches worldwide since 1976. Initially these had LED-displays (light diodes), but since 1982 LCD technology has been used. This kind of display brings significant advantages in terms of information content and energy consumption, and so increases running times. Since

1989, Hanhart has been using "chip on-board" technology, due to the smaller, more ergonomic case designs alongside a simultaneous increase in functionality. This has led to significant improvements in quality. As with all Hanhart products, our mechanical stopwatches are also guaranteed for 24 months.

FIELDS OF APPLICATION



SPORTS, SCHOOL & LEISURE

Proven and functional timepieces with an ideal price-performance ratio for the needs of club-, school- and recreational sports



INDUSTRY

Particularly robust and adapted to the requirements of industry stop watches



LABORATORY

Particularly robust and adapted to the requirements of laboratory stop watches

OPERATION

Start, stop, split and lap are the most important operations for electronic stopwatches. These can be executed by 1 or 2 keys depending on the model.

BUTTONS



SINGLE-BUTTON-OPERATION
All operations are performed using a single button. No accidental mistakes!



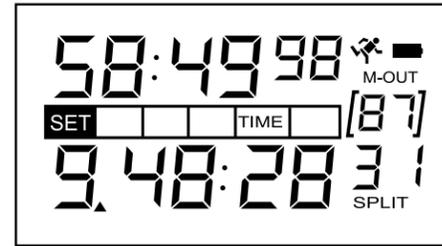
2-BUTTON-OPERATION
Start/stop and split or lap are operated using separate buttons.

DISPLAY

In stopwatches with more limited functionality, single-line displays are generally used. In stopwatches with multiple functions, multi-line displays are predominantly used.



large numerals and symbols, clear display



where there is a wide range of functions, more information is shown on the display

FUNKTIONEN

- **START/STOP** individual time measurement with no interruption
- **ADDITION** time measurement with interrupt option
- **SPLIT** split time measurement while timing continues
- **DUAL MEASUREMENT** for measuring two times in quick succession
- **LAP** circuit or section times (after each stop, a new measuring process begins automatically at time "0")
- **SHORT-LAP** shortest lap time
- **COUNT-DOWN** Count down of a set time of your choosing, a signal sounds at "0"
- **COUNT-UP** incremental counting / stopwatch function
- **AUTOREPEAT** automatically repeats at the end of the programmed time
- **PACER** acoustic pace-setter, freely adjustable
- **MEMORY** logs, which can be retrieved individually after the time recording has finished
- **RESET** reset to zero
- **MEMORY-RESET** delete memory
- **SYSTEM-RESET** complete resetting of the stopwatch's functions

In the table below, these selection criteria can be assigned to the respective models from the Hanhart quality electronics.

MODEL	PAGE	+/- SEC./MONTH	TIME MEASURING BUTTONS	DISPLAY TIMES	BATTERY CHANGE WARNING	WATER PROTECTION	ADDITION	SPLIT	LAP	SHORT-LAP	MEMORIES	COUNTDOWN WITH SIGNAL	COUNT-UP AFTER COUNT-DOWN	AUTOREPEAT	TIME	DATE	SPECIAL FUNCTIONS
Stratos 2	28	30	2	1			•	•									
Stopstar 2	28	30	2	1			•	•									
Profil 25	28	7	2	1,5		•	•	•	•		25				•		
Modul 3	29	14	1	1,5	•	•	•	•	•		60	•		•	•	•	also with ext. connector
Magma 10	29	7	1	2		•	•	•	•	•	10				•		
Delta E 200	30	7	2	2,5	•	•*	•	•	•	•	65	•		•	•	•	Pacer, also with ext. connector
Spectron	30	7	2	2,5	•	•*	•	•	•	•	65	•		•	•	•	
Accord 1	29	14	2	1	•	•		•	•		60				•	•	
Compact	37	30		1			•					•			•		
Labor 2	37	30		1								•	•		•	•	
Labor 3	37	30		3								•	•		•	•	

•* - waterproof

BASIC FUNCTION - STOPWATCHES 2-BUTTON-OPERATION

225.1721-00



PROFIL 25

START / STOP / RESET
ADDITION / SPLIT / LAP / TIME
25 MEMORIES FOR SPLIT- & LAPTIMES

Measuring range: 1/100 Sec.
LCD-display: 7-digit + 2 for Event-Counter
Numeral height: 8 mm
Display range: 9 h., 59 Min., 59,99 Sec.
Size: 82 x 61 x 28 mm
Weight: approx. 90 g
Battery: Mignoncell (AA) 1,5 V
Battery life: approx. 2 - 5 Years



MADE IN GERMANY



211.1712-00



STOPSTAR 2

START / STOP / RESET
ADDITION / SPLIT / DUALMEASURING

Measuring range: 1/100 Sec.
LCD-display: 7-digit
Numeral height: 7 mm
Display range: 9 h., 59 Min., 59,99 Sec.
Size: 82 x 61 x 28 mm
Weight: approx. 70 g
Battery: Mignoncell (AA) 1,5 V
Battery life: approx. 2 - 5 Years

MADE IN GERMANY

205.1705-00



STRATOS 2

START / STOP / RESET
ADDITION / SPLIT / DUALMEASURING

Measuring range: 1/100 Sec.
LCD-display: 7-digit
Numeral height: 6,5 mm
Display range: 9 h., 59 Min., 59,99 Sec.
Size: 66 x 70 x 21 mm
Weight: approx. 62 g
Battery: button cell SR 54
Battery life: approx. 2 years



28

MULTIFUNCTION- & MEMORY STOPWATCHES SINGLE-BUTTON-OPERATION

236.1950-00

MAGMA 10



Measuring range: 1/100 Sec.
LCD-display: 2-lines (6 & 7 digits)
Numeral height: 6 mm
Display range:
Line 1 59 Min., 59,99 Sec.
Line 2 9 Std., 59 Min., 59,99 Sec.
Size: 82 x 61 x 28 mm
Weight: approx. 90 g
Battery: Mignon cell (AA) 1,5 V
Battery life: approx. 2 - 4 years



10 MEMORIES
START / STOP / RESET
ADDITION / SPLIT / LAP / SHORT-LAP
SPLIT TIME CAN BE SET IN ADVANCE OF
THE ACTUAL TIME / TIME

MADE
IN
GERMANY

MULTIFUNCTION- & MEMORY STOPWATCHES 2-BUTTON-OPERATION

245.1946-00 **DELTA E200**



START / STOP / RESET
ADDITION / SPLIT / LAP / SHORT-LAP
PACER / COUNT-DOWN / TIME
65 MEMORIES FOR SPLIT- & LAPTIMES



Split-time can be set in advance of the actual time.
Count-down and stopwatch can be used at the same time. Changing is possible between Split, Lap, S-Lap und time within measuring.

Measuring range: 1/100 Sec.
LCD-display: 2,5-lines
upper line: 6-digits + Batteryindicator
lower line: 7-digits + Functionwindow
Numeral height: 7 mm / 5 mm
Display range:
obere Line: 59 Min., 59,99 Sec.
untere Line: 9 h., 59 Min., 59,99 Sec.
Memories: 65 pro time type
Size: 90 x 60 x 19 mm
Weight: approx. 85 g
Battery: Micron cell (AAA) 1,5 V
Battery life: approx. 5 - 7 years

**ALSO WITH
CONNECTOR FOR
LIGHT BARRIER**

245.1947-00



265.6765-00 **ACCORD 1**



Measuring range: 1/100 Min.
LCD-display: 7-digits
Numeral height: 6 mm
Display range: 99999,99 Min.
Size: 82 x 61 x 28 mm
Weight: approx. 90 g
Battery: Mignon cell (AA) 1,5 V
Battery life: approx. 2 - 5 Years

60 MEMORIES
START / STOP / RESET
SPLIT / LAP



BESTSELLER INDUSTRY STOPWATCHES

262.1762-00

MODUL 3



Measuring range: 1/100 Sec.
LCD-display: 1,5-lines (7 & 2 digits)
Numeral height: 6 mm
Display range: 9 h., 59 Min., 59,99 Sec.
intern: 23 h., 59 Min., 59,99 Sec.
Size: 82 x 61 x 28 mm
Weight: approx. 90 g
Battery: Mignon cell (AA) 1,5 V
Battery life: approx. 2 years

60 MEMORIES
START / STOP / RESET
ADDITION / LAP / SPLIT
COUNTDOWN WITH REPEAT
DATE / TIME
PRINTER CONNECTOR
SPLIT TIME CAN BE SET IN ADVANCE
OF THE ACTUAL TIME / SEPARATED
SYSTEM- & MEMORY-
RESET



251.1951-00

SPECTRON



START / STOP / RESET
ADDITION / SPLIT / LAP / TIME / DATE
65 MEMORIES FOR SPLIT- & LAPTIMES
ADDITIONAL AT 1/100 Sec.: SHORT-LAP / COUNT-DOWN

Measuring range: 1/100 Min. + 1/100 Sec.
LCD-display: 2,5-lines
upper line: 6-digits + Batteryindicator
lower line: 7-digits + Functionwindow
Numeral height: 7 mm / 5 mm
Display range:
upper line: 9.999,99 Min.
lower line: 99.999,99 Min.
Memories: 65 for Split & Lap
Size: 82 x 61 x 28 mm
Weight: approx. 85 g
Battery: Micron cell (AAA) 1,5 V
Battery life: approx. 5 - 7 years



ALSO WITH LIGHT BARRIER CONNECTOR

262.1763-00



PRINTO SET - THERMOPRINTER WITH STOPWATCH MODUL 3

- THIS SET CONSISTS OF:
- PRINTO THERMOPRINTER
 - STOPWATCH MODUL 3
 - CASE WITH FOAM INSERT
 - 2 PAPER ROLLS FOR THE PRINTER
 - RESERVE BATTERIES
 - CONNECTION CABLE



SEPARATELY
SEE P. 39

60 MEMORIES
START / STOP / RESET
ADDITION / SPLIT / LAP
DATE / TIME
PRINTER CONNECTOR
COUNTDOWN FOR REPEAT

600.1700-00 **PRINTO-SET** 

Two Basefunctions:

- The memory of Modul 3 will be reset after printing - this is meaningful when measuring more than 60 participants.
- Saved times from the stopwatch are kept. Advantage is that the memory contents with different time types can be printed several times.

Technical details see „Printo“

Measuring range: 1/100 Sec.
LCD-display: 1,5-lines (7 & 2 digits)
Numeral height: 6 mm
Display range: 9 h., 59 Min., 59,99 Sec.
intern: 23 h., 59 Min., 59,99 Sec.
Size: 82 x 61 x 28 mm
Weight: approx. 90 g
Battery: Mignon cell (AA) 1,5 V
Battery life: approx. 2 years

MODUL 3

CHESS CLOCK PRECISION FOR WISE HEADS



810.1000-00 **CHESS CLOCK**

LAST MINUTECOUNTER
FOR EACH CLOCK 60 MIN. / TIME

Dial: 8 cm diameter each
Running time: 24 hours
Size: 20 x 11,5 x 8 cm
Weight: 730 g
Case: Solid wood

INDUSTRY- & LABORATORY TIME MEASUREMENT





625.2625-00

PRISMA 200

**2 TIMER FULLY PROGRAMMABLE
START / STOP / RESET
ADDITION / FLYBACK / COUNT-DOWN
REPEAT / TIME**

Measuring range: 1/10 Sec. + 1/100 Min.
 Display: 2-lines + Functionwindow
 upper line: 3-digits
 lower line: 5-digits
 Functionwindow: 2-lines, 6 positions
 Numeral height: 22 / 8 mm
 Display range selectable:
 - 999 Min., 99/100 Min.
 - 9 h., 59 Min., 59 Sec., 1/10 Sec.
 Temperature range: -10°C to +55°C
 Size: 175 x 130 x 40/95 mm
 Weight: approx. 390 g
 Battery: Mignon cell (AA) 1,5 V
 Battery life: approx. 1 - 2 years



631.4031-00 **MESOTRON**

**START / STOP / RESET
ADDITION / FLYBACK**

Measuring range: 0-60 Sec. + 1/100 Min.
 Display: analog
 outer scale: 0-60 Sec. + 0-60 Min.
 inner scale: 0-100 / 100 Min.
 Dial: ø110 mm
 Temperatur range: -10°C to +70°C
 Size: 175 x 130 x 40/95 mm
 Weight: approx. 375 g
 Battery: Mignon cell (AA) 1,5 V
 Battery life: approx. 1 - 2 years



626.2625-00

PRISMA 400

**4 TIMER FULLY PROGRAMMABLE
START / STOP / RESET
ADDITION / FLYBACK / COUNT-DOWN
REPEAT / TIME**

Measuring range: 1/10 Sec. + 1/100 Min.
 Anzeige: 2-lines + Functionwindow
 upper Line: 3-digits
 lower Line: 5-digits
 Funktionsfenster: 2-lines, 6 positions
 Numeral height: 22 / 8 mm
 Display range selectable:
 - 999 Min., 99/100 Min.
 - 9 h., 59 Min., 59 Sec., 1/10 Sec.
 Temperature range: -10°C to +55°C
 Size: 175 x 130 x 40/95 mm
 Weight: approx. 390 g
 Battery: Mignon cell (AA) 1,5 V
 Battery life: approx. 1 - 2 years



SHORT PERIOD TIMERS

291.4690-00

COMPACT

COUNT-UP & -DOWN WITH ALARM
START / STOP / RESET
MAGNETCLIP TO HANG & PUT DOWN

TIME



Measuring range: 1/1 Sec.
 LCD-display: 6-digits
 Numeral height: 8 mm
 Display range: 23 h., 59 Min., 59 Sec.
 Size: 64 x 60 x 16 mm
 Weight: approx. 40 g
 Battery: Button cell SR 44
 Battery life: approx. 2 Years



ADDITIONAL DEVICES & SERVICE

293.4693-00 **LABOR 2**

2 PROGRAMMABLE ALARM TIMER
COUNT-UP AND -DOWN
START / STOP / RESET
MAGNETCLIP TO HANG & PUT DOWN

TIME



Measuring range: 1/1 Sec.
 LCD-display: 6-digits
 Numeral height: 18 / 10 mm
 Display range: 99 Std., 59 Min., 59 Sec.
 Size: 76,2 x 66 x 18 mm
 Weight: approx. 60 g
 Battery: Button cell SR 44
 Battery life: approx. 1 - 2 years



294.4994-00

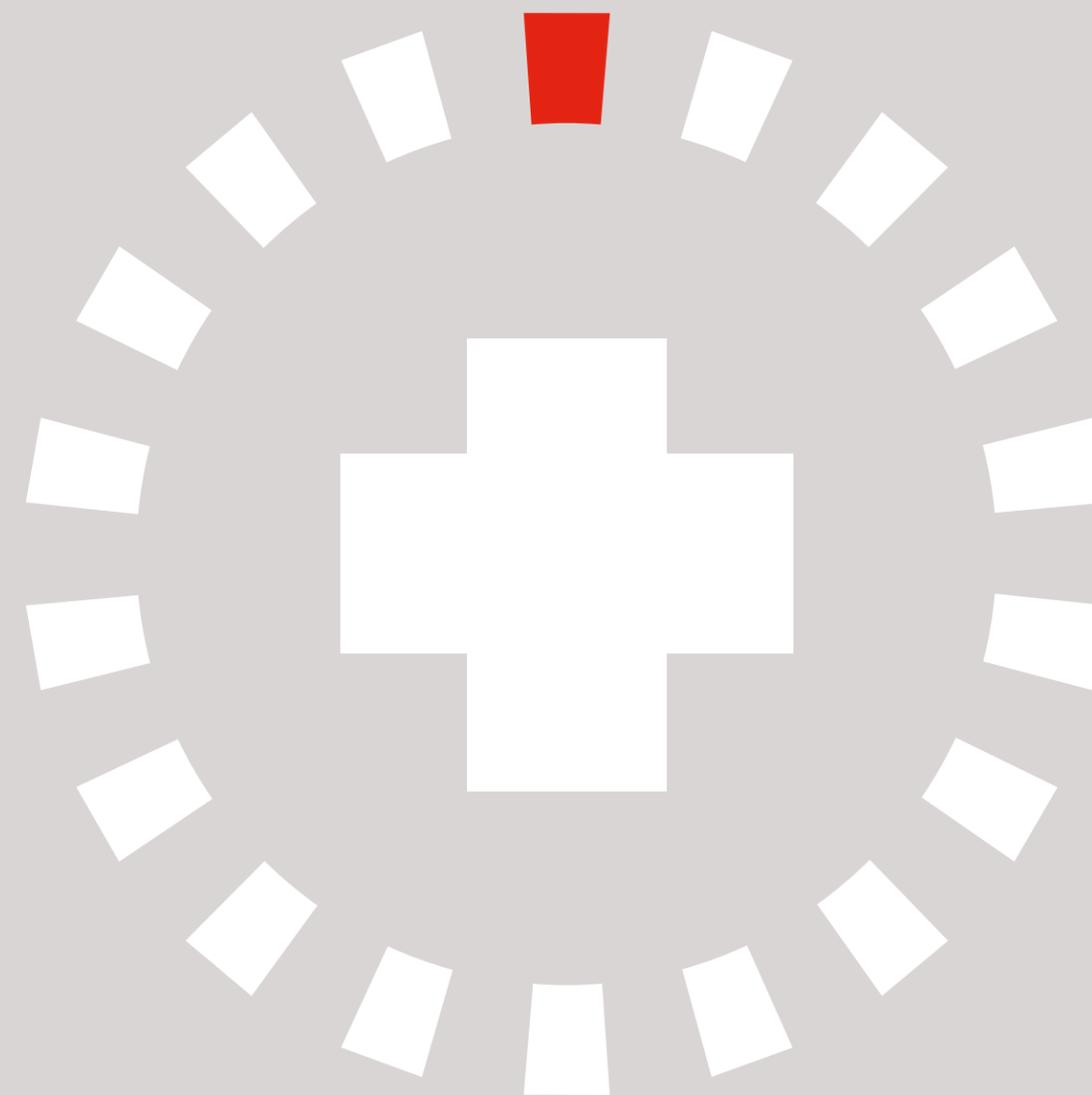
LABOR 3

3 PROGRAMMABLE ALARM TIMER
COUNT-UP & -DOWN
START / STOP / RESET
MAGNETCLIP TO HANG & PUT DOWN

TIME



Measuring range: 1/1 Sec.
 LCD-display: 3 x 6-digits
 Numeral height: 8 / 6 mm
 Display range: 99h., 59 Min., 59 Sec.
 Size: 83 x 70 x 22 mm
 Weight: approx. 80 g
 Battery: Button cell SR 44
 Battery life: approx. 1 - 2 years





SYSTEMA CLIPBOARD

901.0677-90
Basic clipboard without stopwatches-clip

901.0678-30
1 Basic clipboard with clip for electronical stopwatches

901.0678-10
2 Basic clipboard with clip for mechanical stopwatches



905.0752-20
CLIP FOR ELECTRONICAL STOPWATCHES



905.0698-40
CLIP FOR MECHANICAL STOPWATCHES

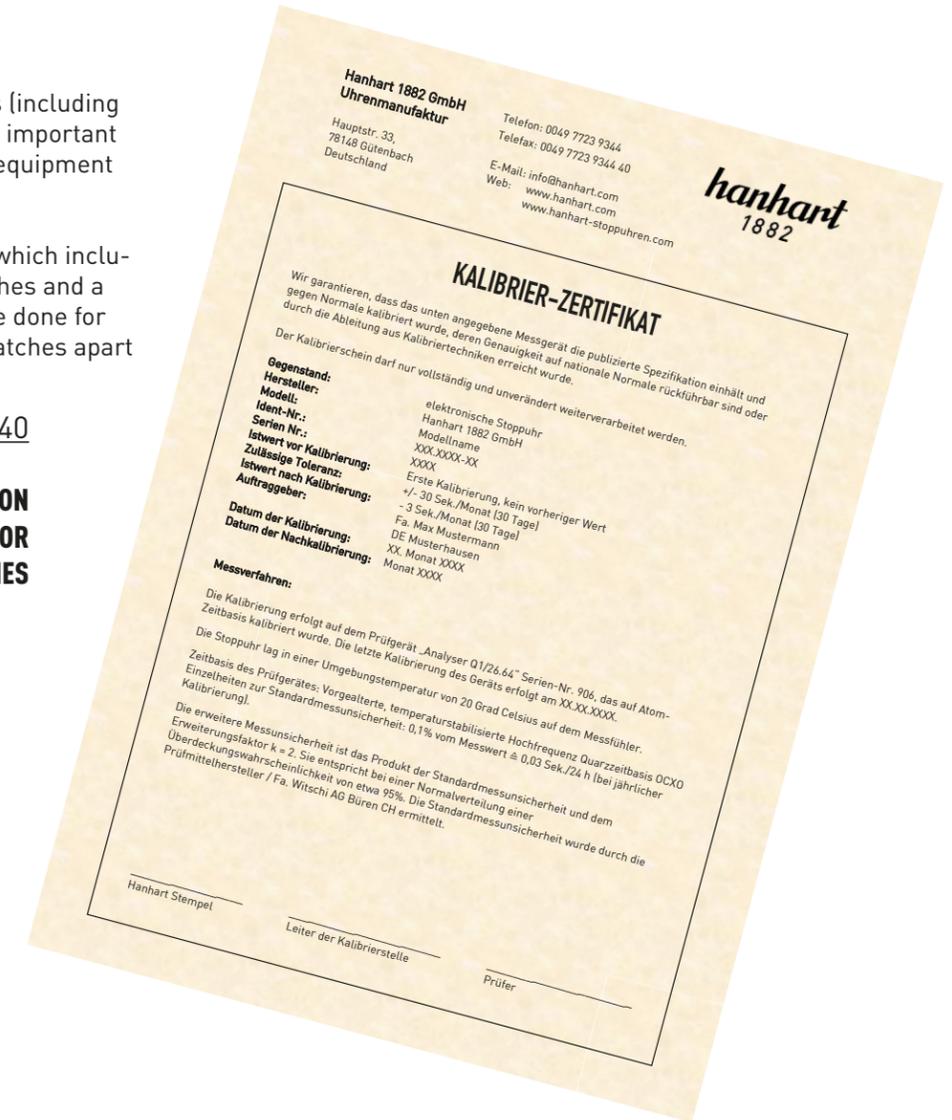
921.0582-40
LANYARD FOR SYSTEMA CLIPBOARD
(without image)

CALIBRATION FOR STOPWATCHES

The calibration of measuring devices (including stopwatches) is becoming ever more important in the light of the monitoring of test equipment for compliance with ISO 9000 ff.

Hanhart offers a calibration service which includes manufacturer calibration of watches and a certificate of their accuracy. Could be done for all mechanical and electronic stopwatches apart from „Stratos“

904.1389-40
CALIBRATION CERTIFICATE FOR STOPWATCHES



902.1324-20 **PRINTO THERMOPRINTER INCL. CASE & CABLE**

Digits/line: 16
Sequential no.: 3-digits
Printout if stopwatch starts from actual time:
„0“: 9 h., 59 Min., 59,99 Sec.
time: 23 h., 59 Min., 59,99 Sec.
Size: 120 x 85 x 35 mm
Weight: approx. 200 g
Battery: 4 x Mignon cell (AA) 1,5 V
Prints/battery pack: 8.000



902.1333-80 **PRINTO PAPER ROLL**

Thermal paper
Width 38 mm
Roll diameter 28 mm

910.1389-40 **REPLACEMENT OF MECHANICAL STOPWATCHED ON METAL CROWN OR METAL PUSHER**

This will make your new stopwatch even more robust.



910.1389-30 **FLYBACK FOR ADDITION-STOPWATCHES**

Allows the stop pointer to be zeroed immediately during a current time measurement over a single press. After releasing the trigger, a new measurement starts immediately.

DASHBOARD PLATES

The stop watches and pocket watches can be freely combined and easily installed into a specially designed plate in the dashboard. The innovative „slide-in“ technique ensures a convenient handling when installing and removing the watches from the dashboard plate.

STAINLESS STEEL POLISHED

- 901.0101-90 Holder for 1 watch
- 901.0201-90 Holder for 2 watches
- 901.0301-90 Holder for 3 watches

STAINLESS STEEL BLACK CHROMED

- 901.0241-80 Holder for 2 watches



TABLETOP STAND

Dashboard plates, along with their corresponding stop-watches and watches, can be easily installed on this practical table stand. It is made from solid stainless steel with a satin finish, and covered with leather.

LEATHER BROWN

- 901.0161-90 For 1 Watch Dashboard Plate
- 901.0261-90 For 2 Watches Dashboard Plate

LEATHER BLACK

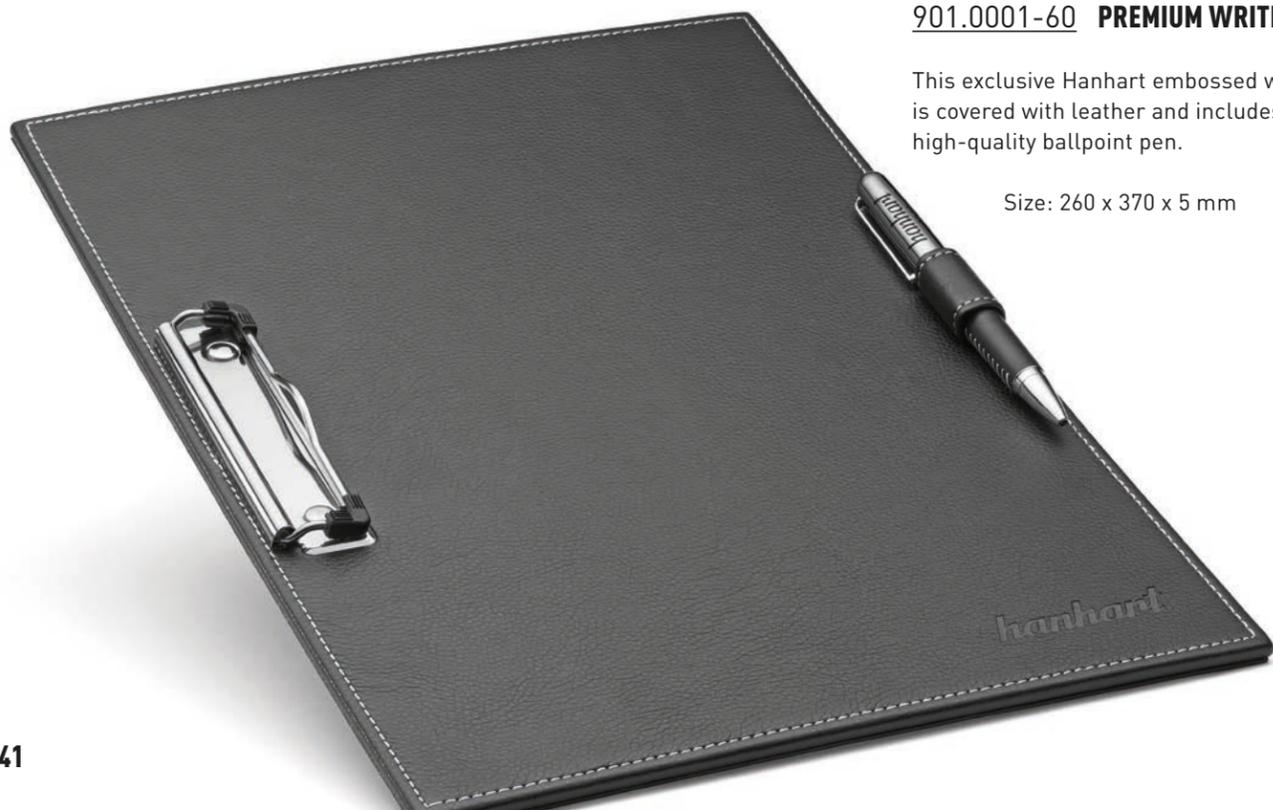
- 901.0171-90 For 1 Watch Dashboard Plate
- 901.0271-90 For 2 Watches Dashboard Plate



901.0001-60 PREMIUM WRITING TABLET

This exclusive Hanhart embossed writing tablet is covered with leather and includes a high-quality ballpoint pen.

Size: 260 x 370 x 5 mm



ACCURATE RUNNING

Our mechanical stopwatches with Swiss lever escapement are regulated to -0.4 to +0.4 seconds per hour. The models with pin anchor are about +1 to -1 second deviation per hour. The regulation of our stopwatches is carried out fully wound at a 30 degree position. This is the position most of the watches are used normally: running fully wound in the hand lying with dial directed to the face. So we can guarantee that our stopwatches are working accurate.

Classictimer

Calibre	Lever	Jewels	Accurate running time 1/5 & 1/100	Accuracy 1/5 & 1/100
125	19" Swiss lever escapement	7	10 - 12 hours	0,03 %
126		11	16 - 18 hours	ab 0,02 %
185		7		
135		7		
850		17	36 hours	0,0138 %

Heat and cold as well as vibrations during driving have negligible influences on the gear values.

Shakes like a serve on the ground, however, should be avoided with any mechanical watch.

Industry- & Laboratory stopwatches

Calibre	Lever	Jewels	Accurate running time 1/5 & 1/100	Accuracy 1/5 & 1/100	Accurate running time 1/10	Accuracy 1/10		
111	19" Pin lever style	1	10 - 12 hours	0,04 %	5 - 6 hours	0,06 %		
112		7						
115		7						
121		1						
122		7						
125		7						
185		7						
135		7						
141		0					0,06 %	0,08 %

PERFECT: THE HANHART SERVICE

You have two options for adding your stopwatch to the service:

1. Via authorized dealers
2. Via the Hanhart service center

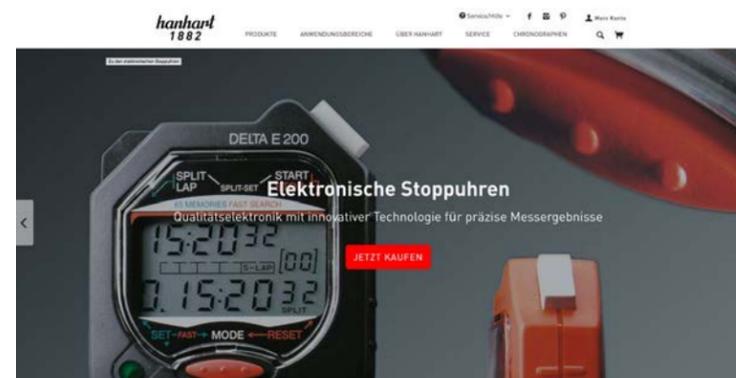
Questions about your watch and customer service will be answered by the Hanhart service team.

CONTACT:

E-Mail: service@hanhart.com
 Phone: +49 (0) 7723 93 44 0

OPENING HOURS:

Monday to Thursday : 8:00 – 12:00 am & 1:30 – 4:00 pm
 Friday: 8:00 – 12:00 am



Our stopwatches can be purchased in specialised shops or in our online shop:

www.hanhart-stoppuhren.com

Hanhart 1882 GmbH

Uhrenmanufaktur

Hauptstr. 33
78148 Gütenbach

www.hanhart-stoppuhren.com