

ULTRA-CHRON CARBON

A new interpretation of precision



PRESS RELEASE

Elegance is an attitude
LONGINES


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The ULTRA-CHRON collection adopts carbon: an innovative material that is both strong and light, and now being used for the first time in a Longines watch case. Powered by a Longines' exclusive high-frequency movement, beating at 36 000 vibrations per hour, this model draws inspiration from an iconic 1968 watch with a distinctive cushion-shaped case. Combining innovation and precision, each ULTRA-CHRON CARBON offers a unique design and is fully chronometer-certified by TIMELAB.



A FIRST FOR LONGINES

Launched in 1968, the Ultra-Chron Diver made history as the first diver's watch to feature a high-frequency movement. At the time, Longines had already established itself as an expert in this technology, having patented it in 1910 for use in sports timekeeping. In 2022, the brand unveiled a new generation Ultra-Chron, which paid tribute to the 1968 model while incorporating the latest technological innovations.

Today, Longines continues to innovate by introducing a new Ultra-Chron model with a carbon case, a first for the brand. This material, known for being both ultra-resistant and lightweight, is widely used in cutting-edge industries such as aeronautics, a field with which

Longines has been closely associated for over a century. The 43 mm-diameter case is crafted from strips of unidirectional carbon fibre and epoxy resin, which are then placed into a mould and heated to a high temperature, compressed under high pressure, and finally cold-cut. It then takes on the iconic cushion shape of the Ultra-Chron case.

This unique manufacturing process creates random patterns in the layout of the fibres, making each case visually unique and giving it a strong identity. Thanks to carbon's lightweight properties, this new model weighs less than 80 grams, including both the watch and strap. It is water-resistant up to 30 bars (300 metres).

The titanium bezel is fixed and features an aluminium insert engraved with a scale numbered in increments of 10. The case back and screw-down crown are also in titanium. Beneath a sapphire crystal with multi-layer anti-reflective treatment, the sand-blasted anthracite dial features a chapter ring marked by twelve applied silver indexes. These, along with the grey PVD hour and minute hands, are coated with a Super-LumiNova® blue luminescence treatment.



HIGH FREQUENCY AND PRECISION



Like the other models in the collection, the Ultra-Chron Carbon is powered by the exclusive Longines high-frequency calibre L.836.6. This movement oscillates at 5 Hertz, or 36 000 vibrations per hour. Compared with conventional mechanical movements, it offers greater stability in response to shocks and changes in position caused by wearing the watch. Equipped with a silicon balance-spring and innovative compo-

nents, this calibre is also up to ten times more resistant to magnetic fields than the ISO 764 standard.

This watch is also fully certified as a chronometer by TIMELAB, an accredited independent watch testing laboratory in Geneva. In keeping with the ISO 3159 standard, the qualification process subjects the finished product to a 15-day testing period during which

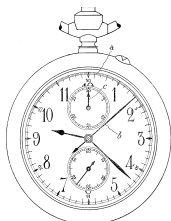
the entire watch is put through a series of functional tests in various positions, repeated at three different temperatures, 8°C, 23°C and 38°C, to confirm its accuracy.

The Ultra-Chron Carbon is fitted with a black technical fabric strap featuring a titanium buckle. Embracing dark tones, the watch is presented in a bespoke black box.

LONGINES AND HIGH FREQUENCY: OVER A CENTURY OF INNOVATION

1910

First patent for a pocket chronograph stopwatch capable of measuring $1/10^{\text{th}}$ of a second.



1916

Very high frequency stopwatch (50 Hz) with split-second hand.
Single push-piece manual counter, housed in a stainless-steel case. High-frequency hand-wound mechanical movement (360 000 vibrations per hour) modified Longines calibre 19.73N. Time measurement to $1/100^{\text{th}}$ of a second.



1914

High-frequency stopwatch (5 Hz) with split-second hand. Manual counter with three pushers, housed in a steel case. High-frequency hand-wound mechanical movement (36 000 vibrations/h), Longines calibre 19.73N. Time measurement to $1/10^{\text{th}}$ of a second.



1938

High-frequency stopwatch (5 Hz) with split-second hand. Professional three pushers counter in Staybrite steel case. High-frequency hand-wound mechanical movement (36 000 vibrations/h), Longines 24-line calibre on a cal. Longines 24.99 – marine chronometer. Time measurement to $1/10^{\text{th}}$ of a second. Variant at $1/100^{\text{th}}$ of a second.



1959

Observatory chronometer, for precision competitions. Rectangular steel case. High-frequency (5Hz) hand-wound mechanical rectangular movement, Longines 360 calibre, hand-crafted. Extreme accuracy, with a daily deviation of less than or equal to $1/10^{\text{th}}$ of a second. 1st and 2nd places in the timekeeping competition at the Neuchâtel Observatory (Switzerland) in 1961, and 1st, 2nd and 3rd places in 1962.



1966

Ultra-Chron, ref. 7827. Round steel case, 35 mm in diameter. High-frequency (5Hz) self-winding mechanical movement, Longines calibre 431 with patented dry lubrication, and with date. Longines guarantees accuracy of one minute per month, or two seconds per day. Registered name. First mass-produced high-frequency precision wristwatch.



LONGINES AND HIGH FREQUENCY: OVER A CENTURY OF INNOVATION

1968**Ultra-Chron Diver, ref. 7970.**

Cushion-shaped stainless-steel case with screw-down case back, 41 mm in diameter; water-resistant to 200 m.

High-frequency (5Hz) self-winding mechanical movement, Longines calibre 431, with date. Longines guarantees an accuracy of one minute per month or two seconds per day. The first high-frequency diver's watch.

**2022****Ultra-Chron, ref. L2.836.4.52.9**

Cushion-shaped stainless-steel case with screw-down case back, 43 mm in diameter; water-resistant to 30 bar (300 m). High-frequency (5Hz) self-winding mechanical movement, exclusive Longines calibre L.836.6. The entire watch is certified as a chronometer in accordance with ISO 3159 standards.

**2024****Ultra-Chron Carbon, ref. L2.839.4.52.2.**

Cushion-shaped carbon case with screw-down titanium case back, 43 mm in diameter; water-resistant to 30 bar (300m). High-frequency (5Hz) self-winding mechanical movement, exclusive Longines calibre L.836.6.

The entire watch is certified as a chronometer in accordance with ISO 3159 standards.



LONGINES, THE HIGH-FREQUENCY EXPERT

A watch qualifies as “high-frequency” when its movement oscillates at a minimum of 5 Hertz, which equates to 36 000 vibrations per hour (or 10 vibrations per second). Longines was a pioneer in this field as early as 1910, developing time-keeping instruments with an accuracy of 1/10th of a second, as evidenced by a first patent in the same year. By 1916, Longines had advanced timekeeping accuracy to 1/100th of a second for sports competitions. Thanks to these innovations the winged hourglass brand has significantly improved the precision of timekeeping and measurement.

In 1959, continuing its quest for precision, Longines incorporated high frequency for the first time in a wristwatch, developing calibres manufactured for chronometric observatory competitions. The brand then applied its expertise to production in order to offer improved stability and superior

precision compared to traditional mechanical movements. The high frequency reduces the effects of disturbances typically associated with wearing a watch, such as those caused by shocks, changes in position or acceleration. These calibres recover their frequency consistency more quickly, guaranteeing superior performance.

For over a century, Longines has designed a wide range of chronographs and high-frequency chronometers, cementing its reputation in professional sports timekeeping and the production of high-precision watches.



ULTRA-CHRON

ULTRA-CHRON CARBON

Technical details



L2.839.4.52.2



L836.6

REFERENCE NUMBER

- L2.839.4.52.2

CALIBRE

- High-frequency (5Hz) self-winding mechanical movement
- Exclusive Longines calibre L836.6
- Entire watch chronometer-certified by TIMELAB
- 11½ lines, 25 jewels, 36 000 vibrations per hour
- Resistant to magnetism (ISO 764), with silicon balance spring
- Power reserve: up to 52 hours

FUNCTIONS

- Hours, minutes, seconds

CASE

- Ø 43 mm; thickness 14 mm
- Cushion shape, carbon case middle with titanium structure
- Sapphire crystal with multi-layer anti-reflective coating on both sides
- Fixed titanium bezel with aluminium insert
- Screw-down titanium crown
- Screw-down titanium back
- Ultra-Chron logo stamped on the case back
- Distance between lugs: 22 mm
- Total weight (watch + bracelet): up to 80 g

DIAL

- Sandblasted anthracite
- 12 applied silver indexes with Super-LumiNova® blue luminescence treatment
- Original Ultra-Chron logo applied

HANDS

- Grey PVD (hours, minutes, seconds), with Super-LumiNova® (hours, minutes) blue luminescence treatment

WATER-RESISTANCE

- Up to 30 bar (300 metres)

STRAP

- Black technical fabric, with titanium buckle



About our movements

Backed by centuries of watchmaking expertise, Longines has played a pioneering role in numerous technical advances and continues to demonstrate an unwavering commitment to innovation. Its constant pursuit of excellence has led it to equip all its automatic timepieces with cutting-edge movements featuring a silicon balance-spring. This material is not only lightweight and corrosion-resistant, but also resistant to the usual temperature variations and magnetic fields. Its unique properties improve a watch's precision and longevity, allowing Longines to back these models with a 5-year guarantee.

À propos de Longines

Established in Saint-Imier, Switzerland in 1832, Longines' expertise is steeped in tradition, elegance and performance. With its lengthy experience as an official timekeeper of world sports championships and partner of international sports federations, the Swiss watch brand has forged solid, enduring links with the world of sports over the years. Famous for the elegance of its timepieces, Longines is a member of the Swatch Group Ltd, the world's leading manufacturer of timepieces. The brand Longines, with its winged hourglass emblem, is represented in over 150 countries.



Longines International Public Relations | publicrelations@longines.com | www.longines.com

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