



ARMIN STROM

SWISS WATCH MANUFACTURE

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Biel/Bienne

Armin Strom introduces the Mirrored Force Resonance Zeitgeist 1665

The Zeitgeist imagines what a Resonance wristwatch might have looked like had it been achieved centuries ago — when resiliently-maintained Resonance had the potential to alter the course of human history. As such, it's a 'relic from a future that might have been' but never was.

This new interpretation of the Zeitgeist offers a further exploration of how leading watchmakers of the past might have aesthetically interpreted the Resonance Phenomenon if they could have both solved the Resonance Fragility Problem and envisioned the concept of a 'wrist watch'. Conceived with a 'future imagined from the past' ethos, this new Zeitgeist offers a creative vision of an imagined horological history that never was.

The Zeitgeist incorporates the Armin Strom Manufacture's milestone achievement of stable and resilient Resonance in a slim and refined 43mm case; combining technical depth with optimal everyday wearability. It definitively achieves the longstanding horological ambitions for Resonance Synchronization that originated with Christiaan Huygens's clock experiments in 1665.

Background

ARMIN STROM's breakthrough achievement, stable and resilient Resonance, had been pursued since the 17th century by watchmaking pioneers like Christiaan Huygens because of its potential to deliver chronometric consistency — the gain or loss of precisely the same number of seconds each day, without fluctuation. Marine navigators of Huygens's era were desperate for chronometric consistency so they could more accurately calculate longitude at sea. Despite the efforts of some of history's most iconic watchmakers, chronometric consistency wasn't achieved when it was needed most — because the Resonance Fragility Problem rendered Resonance timepieces unsuitable for the rigours of oceanic travel. Resonance simply couldn't be maintained in dynamic, real-world conditions — until 2016. That's when Armin Strom's Claude Greisler, inspired by the suspension system found in Antide Janvier's 18th-century Resonance Clock, introduced the first wristwatch to achieve Resonance with near-absolute resilience against disruption. Certified by the Centre Suisse d'Electronique et de Microtechnique (CSEM), ARMIN STROM's patented solution actively mitigates torque fluctuations to maintain synchronization in the most challenging environments, including the human wrist.

Historical Context

Longitude historically required consistent, not perfect, timekeeping — because predictable daily variations could be factored into calculations of longitude. Back when navigators calculated longitude at sea by comparing the local "solar noon" (when the sun was highest) with the time at a known reference point, the potential for Resonance to deliver timekeeping consistency would have revolutionized navigation and saved many lives by improving Longitude calculations — but only if it could have been achieved with resiliency against

disruption. As noted by Sir Isaac Newton in his speech to Parliament in 1714 establishing the Board of Longitude, “By reason of the motion of the ship, the variation of heat and cold, wet and dry, and the difference of gravity at different latitudes, such a watch hath not yet been made.” Had Christiaan Huygens successfully developed his Resonance Sea Clock in the 1600s, with the necessary resiliency against disruption, the Longitude Problem could have been effectively solved over a hundred years before John Harrison presented his H4 marine chronometer in 1759. Initially spurred by promises of great wealth offered by various European governments who sought a resilient chronometric solution for improved maritime navigation, the watchmaking challenge of harnessing Resonance resiliently remained elusive for four centuries, until Armin Strom’s Claude Greisler finally solved it in 2016 with the introduction of our first Resonance timepiece.

A Milestone in Resonance Watchmaking

In horology, the Resonance Phenomenon — known in physics as Huygens Synchronization — occurs when two balance wheels influence each other via the exchange of subtle, almost imperceptible vibrations and enter into a state of synchronized oscillation. Physicists describe this phenomenon as “shared modes of motion.” The benefit lies in oscillation rate stability. Resonance can prevent typical timing errors ordinarily caused by wrist motion, gravity, temperature shifts, and mild shocks. Depending on the design, a Resonance timepiece can deliver timekeeping precision, chronometric consistency, or both. Chronometric consistency means that a watch gains or loses exactly the same number of seconds each day, without variation. How well this Resonance Synchronization is maintained in fact depends on the technical solution, with Resonance timepieces being historically plagued by The Resonance Fragility Problem. That refers to how poor resilience against disruption had rendered the chronometric benefits of Resonance Synchronization intermittent, unpredictable, and unquantifiable. In prior movement architectures, the balance wheels tend to repeatedly drift apart in response to wrist motion and mild shocks, and then draw each other back into alignment — without the predictability required for any quantifiable chronometric benefit. Armin Strom’s patented Resonance Clutch and Resonance Suspension System sustain the Resonance phenomenon continuously and predictably, ensuring both chronometric precision and timekeeping consistency.

Exemplary Hand-finishing: Every component counts, even the parts you don’t see.

At Armin Strom, hand-finishing of every component is a core value. Hand-bevelled and polished bridges, black-polished screws, Perlage, Geneva stripes and circular graining are traditional decorative techniques that reflect our conviction that every component of every timepiece deserves meticulous artisanal attention.

Limited to 25 Examples

The Zeitgeist is a bold tribute to the history of Resonance watchmaking and a celebration of our milestone achievement of stable, predictable and resilient Resonance Synchronization.

Technical specifications

Mirrored Force Resonance Zeitgeist 1665, Reference no. ST25-RF.ZG

Movement:	Armin Strom Manufacture Caliber ARF21_ZG
Indications:	Hours, minutes, twin-seconds
Winding mechanism:	Manual winding
Functions:	Resonance, Flyback
Bridge/Main plate:	Rose gold coloured PVD coated
Regulating system:	Two independent regulating systems connected by a resonance clutch
Power reserve:	80 hours
Frequency:	3.5 Hz (25,200 vibrations per hour)
Dimensions:	37.20 mm x 6.70 mm
Jewels:	39
Number of components:	260
Case:	Stainless steel Sapphire crystal and case back with anti-reflective treatment
Water resistance:	3 ATM
Diameter:	43 mm
Height:	11.55 mm
Lug-to-Lug:	49.60 mm
Dial:	18K White Gold, “vernis laqué poli”, off-center
Hands:	Manufactured by Armin Strom Heat blued stainless steel with hand finishing
Strap:	Dark grey Alcantara strap with grey stitching Stainless steel pin buckle
Limited Edition:	25 pieces
Price:	CHF 82'000.-

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About Armin Strom

Armin Strom is an independent watch company based in Biel/Bienne, Switzerland, where Swiss-German horological tradition blends seamlessly with innovative, open-worked design. Renowned for its artisanal, low-volume approach, the brand meticulously hand-finishes every component to haute horology standards, with a signature focus on exposing movement mechanics on the dial side. Founded in 1967 by Armin Strom, the company was revitalized in 2009 by Master Watchmaker Claude Greisler and entrepreneur Serge Michel. Today, Armin Strom designs, develops, and assembles every timepiece in-house, creating a perfect balance of uncompromising quality, innovation, and transparency. We call it the Science of Movement. www.arminstrom.com

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