

BERNHARD LEDERER MASTER OF ESCAPEMENTS

Every timepiece is the expression of our mechanical artistry seen through the eyes of the master watchmaker whose ingenuity and passion pursue perfection in the very heartbeat of time.

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**INDEPENDENT WATCHMAKER.
VISIONARY ENGINEER.
MASTER OF ESCAPEMENTS.**

Bernhard Lederer is a name that resonates with those who seek the extraordinary in watchmaking. A master craftsman, an inquisitive engineer, and a relentless innovator, he has dedicated his life to exploring the deepest roots of horology while pushing its boundaries into the future.

From reinventing the most intricate escapements to achieving the highest standards of chronometric performance, LEDERE'S work is a conversation between time's greatest traditions and tomorrow's possibilities.

His reinterpretation of George Daniels' visionary escapement is not only a tribute to the masters it is a technical triumph that blends historical insight with experimental research, precision engineering, and uncompromising handcraft.



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OVERALL PORTRAIT OF BERNHARD LEDERER

A Life of Innovation, Craftsmanship, and Influence

Horological Innovation: Bernhard Lederer is renowned for his ability to blend tradition with innovation, creating timepieces that integrate advanced watchmaking techniques while honoring the legacy of craftsmanship. Over the past 20 years, he has filed several patents, a testament to his technical ingenuity and creative commitment.

Iconic Creations: His emblematic pieces, such as the Majesty Tourbillon MT3, the Gagarin, and other unique models, have left an indelible mark on the world of watchmaking, combining aesthetic refinement with functional excellence.

High-Precision Craftsmanship: As a master watchmaker, Lederer embodies the dedication to high-precision craftsmanship, delivering watches that represent the pinnacle of quality and expertise. His exceptional escapements, developed with a passion he shared with George Daniels, who passed on the torch of innovation to him, are a striking example of this pursuit of excellence.

Complex Mechanisms: He is acclaimed for his integrated, complex, and innovative horological mechanisms, showcasing exceptional mastery in both their development and hand-built execution.



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Transmission and Influence: LEDERER's commitment to nurturing the next generation of watchmakers and promoting the art of horology actively contributes to the evolution and recognition of the craft. As a legendary figure in Swiss watchmaking, he consistently acts as a cultural ambassador of horological know-how, enhancing the international reputation of both the canton of Neuchâtel and Switzerland's watchmaking heritage.

Industry Impact: LEDERER's contributions to horology extend beyond his own creations; they include his broader influence on trends and innovations, particularly through the complexity and mechanical precision of his in-house movements.

Awards and Recognition: His work has been praised by leading experts and institutions, cementing his reputation as a major figure in contemporary watchmaking. This recognition includes the Innovation Prize at the GPHG in 2021 and the Chronometry Prize in 2024.

Enduring Passion: His unwavering passion for horology and his commitment to excellence are evident in every timepiece he creates, continuously inspiring both collectors and professionals in the field.



BERNHARD LEDERER
BIOGRAPHY



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FROM A BOY ENCHANTED BY THE TICKING OF A WATCH TO A MASTER WATCHMAKER

In the heart of Germany, where the landscapes whisper tales of precision and dedication, a young boy named Bernhard Lederer embarked on a journey that would forever shape the art of watchmaking.

From a very young age, Bernhard was immersed in a heritage of curiosity. His grandfather's pocket watches became his most treasured possessions, sparking a passion that would soon blaze into a lifelong vocation.

At 17, while in a library, he stumbled upon a story that would change the course of his life: the quest to understand the language of escapements.

His story is a powerful reminder that passion, when combined with a thirst for knowledge and exploration, can transcend expectations and lead to extraordinary achievements.

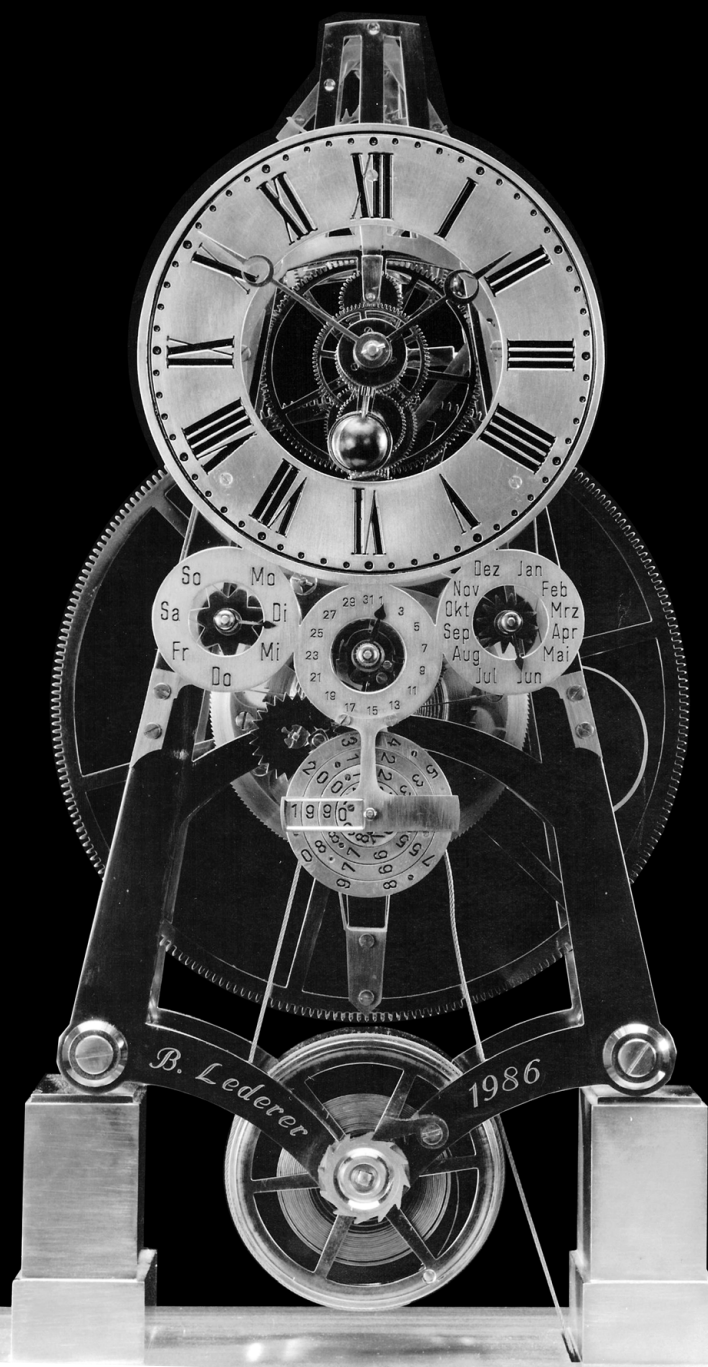
40 YEARS OF RESEARCH AND INNOVATION IN THE SERVICE OF MECHANICAL PRECISION

- 1958** Bernhard Lederer, born near Stuttgart, Germany.
- 1976** He began his horological journey as an apprentice at the Wuppertal Clock and Watch Museum, where he immersed himself in the complex and fascinating world of timekeeping.
- 1984** After eight years of intensive training and mentorship under a master watchmaker in Pforzheim, he earned the prestigious title of Master Watchmaker, marking the beginning of an exceptional journey.
- 1986** Recognized early on for his talent and innovative spirit, Bernhard Lederer became the first member admitted after the founders to the Académie Horlogère des Créateurs Indépendants (A.H.C.I.), joining the ranks of the greatest independent watchmakers, including George Daniels.
- He made a bold statement by creating a table clock with a gravity escapement featuring a perpetual calendar that need one correction in 3'200 years and a moonphase and moon position indication that needs to be corrected in 800 years, a masterpiece blending tradition, mechanical genius, and a very long-term vision.
- 2000** Bernhard settled in Switzerland and founded BLU Source du Temps SA, an independent manufacture specializing in Haute Horlogerie, located in Neuchâtel.
- 2006** He developed the first orbital tourbillon movements of the BLU-Majesty collection, entirely designed and manufactured in-house. This exceptionally complex architecture had only been achieved twice before in the history of watchmaking. In 2007, the model was awarded "The Most Revered Watch" in Malaysia for its design and technological innovation.
- 2011** He then designed the Gagarin Tourbillon, a commemorative watch for the 50th anniversary of the first human spaceflight, featuring a one-minute-tourbillon that orbits the dial in 108 minutes, paying tribute to the exact duration of Yuri Gagarin's orbit.
- 2016** Always at the forefront of applied research, he developed a divers watch resistant to 100'000 GAUSS, made for the German Navy special forces. A technological feat unmatched to this day.
- 2021** He made a major breakthrough in the quest for precision with the Central Impulse Chronometer (CIC), the first wristwatch featuring an independent double impulse escapement and two constant-force mechanisms. This timepiece earned him the Innovation Prize at the Grand Prix d'Horlogerie de Genève (GPHG) in 2021, recognizing his genius in time regulation.
- 2024** Bernhard Lederer's pursuit for highest quality watchmaking was honored with another top international award: he won the Grand Prix d'Horlogerie de Genève (GPHG) in the Chronometry category for his Triple Certified Observatory Chronometer.



BERNHARD LEDERER
GREATEST CREATIONS

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1986 DIPLOMA MASTERPIECE

Diploma Masterpiece: A table clock featuring a gravity escapement and a complete perpetual calendar. A masterpiece with a millenium calender for the coming 3'200 years and a moon phase and position require correction only once every 800 years.



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1990 GRAVITY ESCAPEMENT

A new interpretation of Charles Bond's gravity escapement (Boston), one of the most ingenious concepts in chronometry. Bernhard Lederer's version performs flawlessly, even after years of continuous use, unlike the original.



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1991 TROJKA

A self-supporting sculpture with avant-garde design, featuring a weekly power reserve. Two large wheels display the hours and minutes, while the rest of the mechanism remains hidden within the columns.



1996 500TH ANNIVERSARY OF BRAZIL

After all traditional tower clock manufacturers had refused to make an offer due to the extreme natural conditions, Lederer took up the challenge and developed a tower clock concept that could withstand all adversities such as storms and heat. 27 monumental clocks had been successfully erected.

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1996 TIME DIMENSION

A series of watches with Zeiss orbital discs was awarded German Watch of the Year. Praised for its innovative design, it inspired the renowned “Galaxy” collection by BLU, cementing Bernhard Lederer’s reputation for horological creativity.

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2006 MAJESTIC TOURBILLON

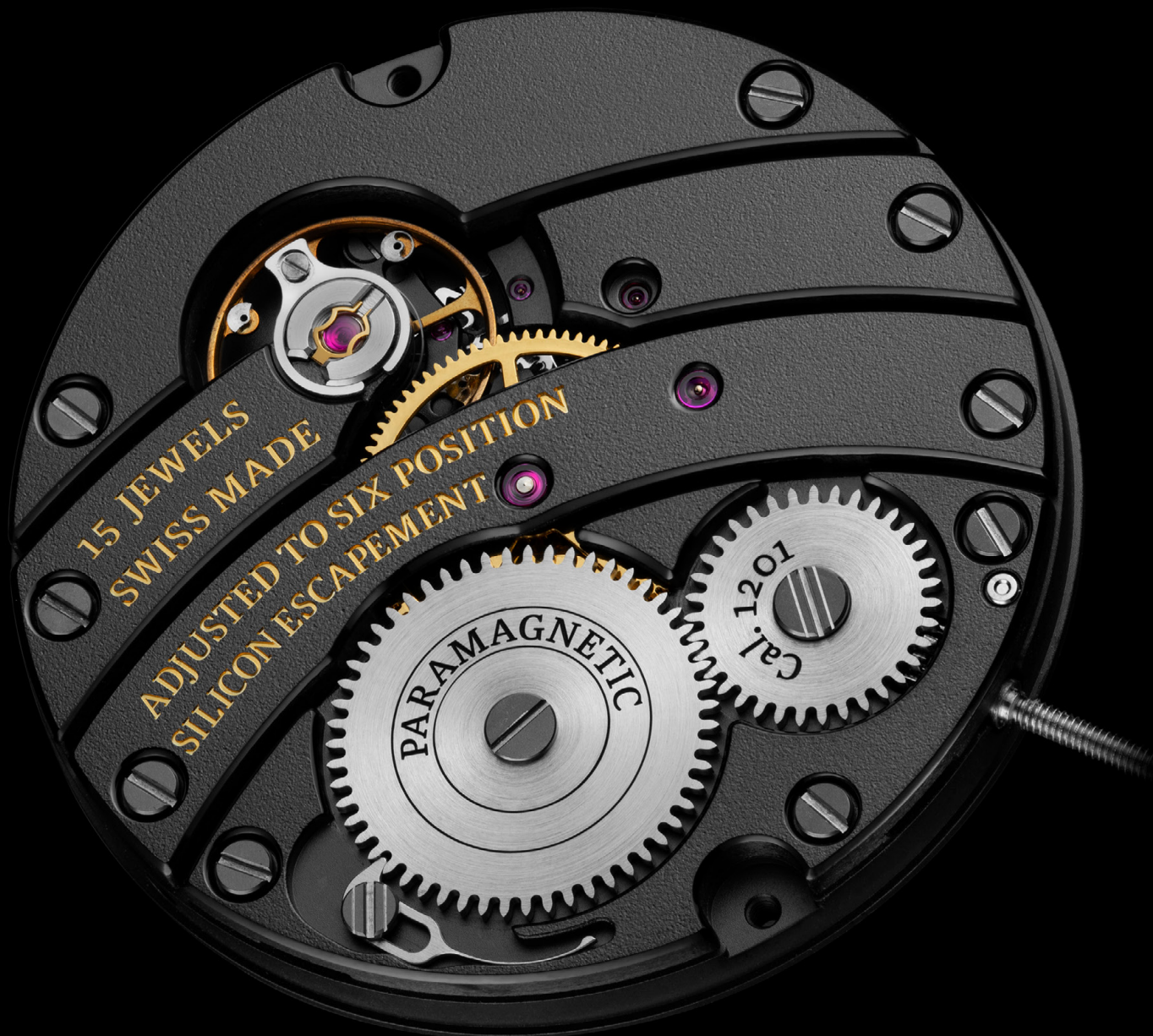
The first escapement entirely developed and manufactured in-house. A technical rarity : three tourbillons, two flying and one semi-flying, combined in a design where extreme precision is paramount.

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2011 50 YEARS OF GAGARIN SPACE TRIP

An unprecedented one-minute tourbillon, moving like a satellite around the dial in 108 minutes, the exact duration the cosmonaut spent in space.



2016 100,000 GAUSS PARAMAGNETIC

A movement with the lowest magnetic interaction rate, maintaining its precision even within a magnetic field of 100,000 Gauss. Developed for the German Navy's special bomb disposal units.

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2021 CENTRAL IMPULSE CHRONOMETER

GPHG 2021 - Innovation Prize

Equipped with a double direct impulse escapement and two constant force mechanisms, it was awarded for its technical breakthrough and masterful reinterpretation of George Daniels' principles.



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2024 TRIPLE CERTIFIED CHRONOMETER

GPHG 2024 - Chronometry Prize

The Triple Certified Observatory Chronometer, certified by three different european observatories, Glashütte in Germany, Besançon in France and Geneva in Switzerland, marks a historic return to certified precision and crowns a rare scientific approach in contemporary watchmaking.



BERNHARD LEDERER
THE CENTRAL IMPULSE
CHRONOMETER



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THE CENTRAL IMPULSE CHRONOMETER : THREE CENTURIES OF HOROLOGICAL DREAMS BROUGHT TO REALITY

Bernhard Lederer has been developing for over 40 years an experimental approach to watchmaking, where each creation is based on a rigorous analysis of mechanical laws, horological history, and chronometric principles. He stands out through a constant commitment to reconciling historical knowledge with innovation, implementing an engineer-researcher methodology while honoring the foundations laid by master watchmakers such as Breguet, Harrison, and Daniels.

After more than ten years of development, Bernhard Lederer has overcome one of the most complex challenges in watchmaking history: realizing Breguet's dream, later taken up by George Daniels, by creating a fully functional double-impulse escapement in a wristwatch.

The Central Impulse Chronometer (CIC), awarded the Innovation Prize at the 2021 GPHG and further honored with a triple observatory certification in 2024, represents a major breakthrough in precision, reliability, and mechanical efficiency.



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THE HISTORY OF ESCAPEMENTS AS A FIELD OF STUDY AND INNOVATION

Bernhard Lederer's patented escapement places the impulse transmission directly on the central axis of the balance wheel, reducing energy loss and friction while enhancing component durability. This system overcomes challenges that neither Breguet (1789) nor George Daniels (1976) were able to fully resolve: delivering a direct, alternating, recoil-free impulse in a wristwatch, the very first real self-starting chronometer escapement for all enthusiasts to enjoy.

With the CIC, Bernhard Lederer bridges three centuries of horological science, providing a concrete solution to a historical challenge while embedding it within a rigorous modern scientific approach, through testing, certifications, patented architecture, and knowledge transmission.

The CIC is not just a watch; it is a foundational contribution to the history of chronometry.



BERNHARD LEDERER
TRANSMISSION
OF SAVOIR FAIRE



TRANSMISSION OF EXPERTISE AN INDEPENDENT MANUFACTURE DEDICATED TO HOROLOGICAL EXCELLENCE

At the heart of the prestigious Neuchâtel watchmaking arc, in Saint-Blaise, the LEDERER Manufacture has embodied for nearly two decades a rare model of independence, rigor, and knowledge transmission. This fully autonomous workshop masters the entire watchmaking process, from research and development to final assembly, encompassing every craft discipline and rigorous quality control of each component. What sets the LEDERER Manufacture apart, beyond its technical mastery, is its fierce commitment to preserving and passing on exceptional know-how. Under the leadership of Bernhard Lederer and his family, a

highly skilled team of artisans works in an atmosphere of trust, attentive listening, and shared passion. This artisanal environment fosters a constant exchange of knowledge, techniques, precise gestures, and creative intuition.

By placing transmission at the core of its approach, Bernhard Lederer not only ensures the longevity of the most specialized horological skills but also creates fertile ground for innovation. The Manufacture thus becomes a living place where the history of time meets the present, and where each generation contributes to advancing the art of watchmaking.

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