

LEGACY MACHINE

PERPETUAL EVO

MB&F

NOT A WATCH FOR SPORTS. A WATCH FOR LIFE.





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MB&F – GENESIS OF A CONCEPT LABORATORY

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LEGACY MACHINE PERPETUAL EVO

SUMMARY

Over the past 15 years, MB&F creations have transported their wearers to destinations that exist only on maps of the imagination: from star-cruisers to deep-sea jellyfish, Maximilian Büsser's Machines are the mechanical cartographers of the multiverse.

But the greatest journey has yet to be undertaken, and true progress is marked by evolution. With Legacy Machine Perpetual EVO, you are the navigator; the map is your life. On this journey, you'll never have to leave your watch behind.

A 44mm case in zirconium or titanium, modern metals with material properties surpassing stainless steel. A new case profile that emphasises openness and extreme clarity. A specially developed monobloc shock-absorbing system – "FlexRing" – that makes for the most robust Machine ever to emerge from MB&F. The LM Perpetual Engine, designed by Stephen McDonnell, an award-winning perpetual calendar that replaces traditional constructions with an innovative mechanical processor.

The LM Perpetual EVO was first launched in zirconium with three options of PVD/CVD dial-plate colour, including — for the first time in a high-end piece of Swiss watchmaking — atomic orange. A grade 5 titanium edition follows in 2021, with a green CVD dial plate. All editions feature a closely-fitted, integrated rubber strap for the smoothest wearing experience of any MB&F Machine ever.

The MB&F collection has welcomed several complications and horologically prestigious mechanisms over the past 15 years, including the record-smashing TriAx that debuted in 2019's Legacy Machine Thunderdome. In terms of combining prestige, tradition and innovation, however, Legacy Machine Perpetual has remained at the apex of MB&F watchmaking savoir-faire since it was introduced in 2015.

Although the 44mm diameter is unchanged from its 2015 iteration, the new EVO case design features a no-bezel construction, with the domed sapphire crystal fused directly to the case. The increased openness of this design highlights the equilibrium between the legibility of LM Perpetual EVO's calendar indications and the cinematic play of the engine

components — surmounted by the iconic MB&F hovering balance wheel. This expansive new presentation of the LM Perpetual Engine was no simple design reconfiguration. New geometries for the sapphire crystal had to be calculated, achieving the mechanically opposing aims of maintaining structural strength and decreasing its height-to-diameter ratio. Freeing LM Perpetual EVO from the bezel also necessitated the use of a sophisticated thermal bonding system between the sapphire crystal and the case.

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LEGACY MACHINE PERPETUAL EVO

The previously circular pushers for adjusting the perpetual calendar have been enlarged into double-sprung oblong actuators, boosting the tactile comfort and ease of adjustment. For the first time in any MB&F creation, the LM Perpetual EVO is rated at 80m of water resistance, enabled by its screw-down crown. A small, but essential, detail of implementing a screw-down crown is the débrayage of the winding stem, disengaging the crown from the winding mechanism when it is pushed in and tightened, which eliminates the chance of manually over-winding the mainspring barrel.

An additional new element of the LM Perpetual EVO is the FlexRing: an annular dampener fitted between case and movement, providing shock protection along the vertical and lateral axes. Machined from a single block of stainless steel, the dampener imparts exceptional robustness to the perpetual calendar, a function that is associated with classicism and elegance, but is arguably the most pragmatic and utilitarian of all the high complications.

When Stephen McDonnell set out to redesign the perpetual calendar for MB&F, he proposed a system that rethought the entire mechanical basis of the complication. The LM Perpetual uses a “mechanical processor” consisting of a series of superimposed disks. This revolutionary processor takes the default number of days in the month at 28 — because, logically, all months have at least 28 days — and then adds the extra days as required by each individual month. This ensures that each month has exactly the right number of days, and removes the possibility of the date jumping incorrectly. An inbuilt safety feature disconnects the quickset pushers during the date changeover, so that even if the pushers are accidentally actuated whilst the date is changing, there is no risk of damage to the movement.

In design, in technique, in spirit, Legacy Machine Perpetual EVO is an evolution of your story with MB&F.

The LM Perpetual EVO is not a watch for sports. It is a watch for life.

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CALENDRIC COMPUTATION

Conventional perpetual calendars are generally modules comprising the complication, which is fitted on top of an existing movement. The calendar indications are synchronised by a long lever running across the top of the complication and passing through the centre. As the date changes, this long lever transmits information to the appropriate components and mechanisms by moving backwards and forwards. This traditional system, while beautiful in its interplay of levers and components, is also extremely unwieldy, restricting movement construction in several key ways that would make something like Legacy Machine Perpetual a mechanical impossibility.

Created by Stephen McDonnell and premiered in 2015, the LM Perpetual Engine was — and still is — one of the most innovative perpetual calendar systems to exist in modern watchmaking.

In the traditional system, perpetual calendars assume that, by default, all months have 31 days. At the end of months with fewer than 31 days, the mechanism quickly skips through the superfluous dates before arriving at the 1st of the new month. Any manipulation or adjustment of the date during changeover can result in damage to the mechanism, requiring expensive repairs by the manufacturer. The dates can also jump or skip during changeover, negating the whole point of the perpetual calendar in the first place, which is not requiring adjustment for years. Or decades.

Legacy Machine Perpetual uses a “mechanical processor” consisting of a series of superimposed disks. This revolutionary processor takes the default number of days in the month at 28 – because, logically, all months have at least 28 days – and then adds the extra days as required by each individual month. This ensures that each month has exactly the right number of days. There is no “skipping over” redundant days, so there is no possibility of the date jumping incorrectly.

Using a planetary cam, the mechanical processor also enables quick-setting of the year so that it displays correctly in the four-year leap year cycle, whereas traditional perpetual calendar mechanisms require the user to scroll through up to 47 months to arrive at the right month and year.

The mechanical processor also enables an inbuilt safety feature that disconnects the quick-set pushers during the date changeover, eliminating any risk of damage while the date is changing.

In 2015, Legacy Machine Perpetual premiered the world's longest balance wheel pinion, connecting the hovering balance to the escapement on the back of the engine. This technical feat has since been showcased elsewhere in the MB&F collection, namely the Legacy Machine Split Escapement.



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LEGACY MACHINE PERPETUAL EVO

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Legacy Machine Perpetual EVO was first launched in three variations of 15 pieces each in zirconium with orange CVD dial plate, blue CVD dial plate or black PVD dial plate; and is now available in titanium with a green CVD dial-plate.

ENGINE

Fully integrated perpetual calendar developed for MB&F by Stephen McDonnell, featuring dial-side complication and mechanical processor system architecture with inbuilt safety mechanism. Manual winding with double mainspring barrels. Bespoke 14mm balance wheel with traditional regulating screws visible on top of the movement. Superlative hand finishing throughout respecting 19th century style; internal bevel angles highlighting hand craft; polished bevels; Geneva waves; hand-made engravings.

Galvanic black dials with both SLN numerals and hands (except for the leap year and power reserve)

FlexRing: an annular dampener fitted between case and movement, providing shock protection along the vertical and lateral axes.

Screw down crown

Power reserve: 72 hours

Balance frequency: 18,000bph / 2.5Hz

Number of components: 581

Number of jewels: 41

FUNCTIONS/INDICATIONS

Hours, minutes, day, date, month, retrograde leap year and power reserve indicators

CASE

Material: Zirconium or Titanium

Dimensions: 44 x 17.5 mm

Number of components: 70

Water resistance: 8ATM / 80m / 270 feet

SAPPHIRE CRYSTALS

Sapphire crystals on top and display back treated with anti-reflective coating on both faces

STRAP & BUCKLE

Rubber strap with titanium folding buckle.

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'FRIENDS' RESPONSIBLE FOR LM PERPETUAL EVO

Concept: Maximilian Büsser / MB&F

Product design: Eric Giroud / Through the Looking Glass

Technical and production management: Serge Kriknoff / MB&F

Movement design and finish specifications: Stephen McDonnell and MB&F

Movement development: Stephen McDonnell, MB&F

R&D: Robin Anne, Thomas Lorenzato, Joey Miserez, Julien Peter and Michael Artico / MB&F

Wheels, bridges, pinions and axis: Jean-François Mojon / Chronode, Atokalpa, Paul-André Tendon / Bandi, Daniel Gummy / Decobar Swiss, Rodrigue Baume / HorloFab, DMP, and Le Temps Retrouvé.

Balance wheel: Andréas Kurt / Precision Engineering, Benjamin Signoud / AMECAP and Marc Bolis / 2B8

Barrel: Stefan Schwab / Schwab-Feller and Swiss Manufacturing

Perpetual calendar parts: Alain Pellet / Elefil

Hand-engraving of movement: Glypto

FlexRing: Laser Automation

Hand-finishing of movement components: Jacques-Adrien Rochat and Denis Garcia / C-L Rochat

PVD/CVD-treatment: Pierre-Albert Steinmann / Positive Coating

Movement assemblage: Didier Dumas, Georges Veisy, Anne Guitier, Emmanuel Maitre, and Henri Porteboeuf / MB&F

After-Sales service: Thomas Imberti / MB&F

Quality Control: Cyril Fallet / MB&F

Case and movements components: Alain Lemarchand, Romain Camplo and Jean-Baptiste Prétot / MB&F

Case decoration: Sandra Lambert / Bripoli

Dial: Hassan Chaïba and Virginie Duval / Les Ateliers d'Hermès Horloger

Super-LumiNova on the dials: Frédérique Thierry / Monyco

Buckle: G&F Chatelain

Crown and correctors: Cheval Frères

Hands: Waeber HMS

Sapphire crystals: Stettler

Anti-reflection treatment for sapphire crystals: Anthony Schwab / Econorm

Strap: Thierry Rognon / Valiance

Presentation box: Olivier Berthon / SoixanteetOnze

Production logistics: David Lamy, Isabel Ortega and Ashley Moussier / MB&F

Marketing & Communication: Charris Yadigaroglou, Vanessa André, Arnaud Légeret and Camille Reix / MB&F

M.A.D.Gallery: Hervé Estienne / MB&F

Sales: Thibault Verdonckt, Virginie Marchon, Cédric Roussel and Jean-Marc Bories / MB&F

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Product photography: Laurent-Xavier Moulin and Alex Teuscher

Portrait photography: Régis Golay / Federal

Website: Stéphane Balet / Idéative

Film: Marc-André Deschoux / MAD LUX and Brosky Media

Texts: Suzanne Wong / WorldTempus

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MB&F – GENESIS OF A CONCEPT LABORATORY

Founded in 2005, MB&F is the world's first-ever horological concept laboratory. With almost 20 remarkable calibres forming the base of the critically acclaimed Horological and Legacy Machines, MB&F is continuing to follow Founder and Creative Director Maximilian Büsser's vision of creating 3-D kinetic art by deconstructing traditional watchmaking.

After 15 years managing prestigious watch brands, Maximilian Büsser resigned from his Managing Director position at Harry Winston in 2005 to create MB&F – Maximilian Büsser & Friends. MB&F is an artistic and micro-engineering laboratory dedicated to designing and crafting small series of radical concept watches by bringing together talented horological professionals that Büsser both respects and enjoys working with.

In 2007, MB&F unveiled its first Horological Machine, HM1. HM1's sculptured, three-dimensional case and beautifully finished engine (movement) set the standard for the idiosyncratic Horological Machines that have followed – all Machines that tell the time, rather than Machines to tell the time. The Horological Machines have explored space (HM2, HM3, HM6), the sky (HM4, HM9), the road (HM5, HMX, HM8) and the animal kingdom (HM7, HM10).

In 2011, MB&F launched its round-cased Legacy Machine collection. These more classical pieces – classical for MB&F, that is – pay tribute to nineteenth-century watchmaking excellence by reinterpreting complications from the great horological innovators of yesteryear to create contemporary objets d'art. LM1 and LM2 were followed by LM101, the first MB&F Machine to feature a movement developed entirely in-house. LM Perpetual, LM Split Escapement and LM Thunderdome broadened the collection further. 2019 marked a turning point with the creation of the first MB&F Machine dedicated to women: LM FlyingT; and MB&F celebrated 10 years of Legacy Machines in 2021 with the LMX. MB&F generally alternates between launching contemporary, resolutely unconventional Horological Machines and historically inspired Legacy Machines.

As the F stands for Friends, it was only natural for MB&F to develop collaborations with artists, watchmakers, designers and manufacturers they admire.

This brought about two new categories: Performance Art and Co-creations. While Performance Art pieces are MB&F machines revisited by external creative talent, Co-creations are not wristwatches but other types of machines, engineered and crafted by unique Swiss Manufactures from MB&F ideas and designs. Many of these Co-creations, such as the clocks created with L'Epée 1839, tell the time while collaborations with Reuge and Caran d'Ache generated other forms of mechanical art.

To give all these machines an appropriate platform, Büsser had the idea of placing them in an art gallery alongside various forms of mechanical art created by other artists, rather than in a traditional storefront. This brought about the creation of the first MB&F M.A.D. Gallery (M.A.D. stands for Mechanical Art Devices) in Geneva, which would later be followed by M.A.D. Galleries in Taipei, Dubai and Hong Kong.

There have been distinguished accolades reminding us of the innovative nature of MB&F's journey so far. To name a few, there have been no less than 5 awards from the famous Grand Prix d'Horlogerie de Genève: in 2019, the prize for Best Ladies Complication went to the LM FlyingT, in 2016, LM Perpetual won the Best Calendar Watch award; in 2012, Legacy Machine No.1 was awarded both the Public Prize (voted for by horology fans) and the Best Men's Watch Prize (voted for by the professional jury). In 2010, MB&F won Best Concept and Design Watch for the HM4 Thunderbolt. In 2015 MB&F received a Red Dot: Best of the Best award – the top prize at the international Red Dot Awards – for the HM6 Space Pirate.

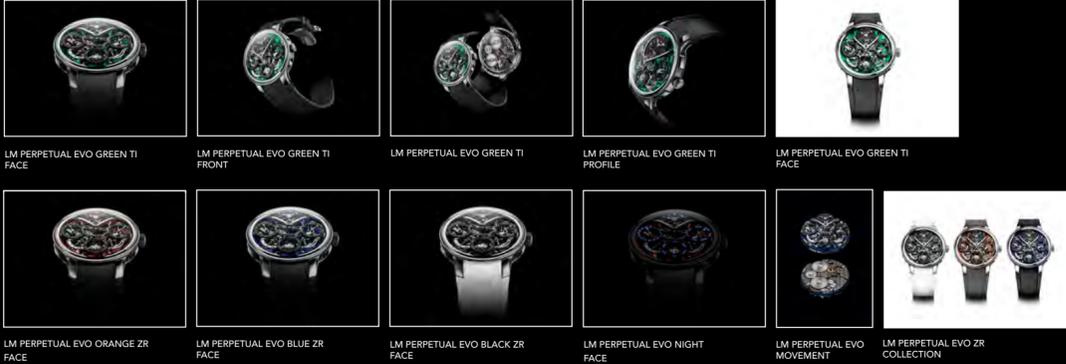
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