



MARTIN BRAUN

## NOVELTIES 2008

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CLASSIC CHRONO  
NEW CHRONOGRAPH MOVEMENT
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## 1) MARTIN BRAUN

Martin Braun, a name that is known to the watch world for its astronomical complications. But not only that, but also for his individual creativity and incomparable designs. With always new ideas, Martin Braun has been able to establish himself on the international markets over the last years. This was one of the reasons why the brand is now part of the Franck Muller Group in Geneva.

A step which for the brand and the person Martin Braun was the absolute right decision. For Martin Braun this decision was big steps towards the future. It is part of a clear brand strategy and brand positioning, built on creativity, individuality, exclusivity and last not least on complete new possibilities for future developments. All my ideas and projects are now much easier to realize, thanks to the support of Franck Muller Group", says Martin Braun. "We have a great team and the future is very promising".

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## 2) ZEPHYROS

The equation of time is the difference, over the course of a year, between time as read from a sundial and a clock. The sundial can be ahead (fast) by as much as 16 min 33 s (around November 3) or fall behind by as much as 14 min 6 s (around February 12). It is caused by irregularity of the motion of the Sun in the sky, due to a combination of the obliquity of the Earth's rotation axis and the eccentricity of its orbit. The equation of time is the east or west component of the analemma, a curve representing the angular offset of the Sun from its mean position on the celestial sphere as viewed from Earth.

*Apparent time versus mean time*

The irregular daily movement of the Sun was known by the Babylonians, and Ptolemy has a whole chapter in the *Almagest* devoted to its calculation. However he did not consider the effect relevant for most calculations as the correction was negligible for the slow-moving luminaries. He only applied it for the fastest moving luminary, the moon.

Until the invention of the pendulum and the development of reliable clocks towards the end of the 17th century, the equation of time, as defined by Ptolemy, remained a curiosity, not important to normal people except astronomers. Only when mechanical clocks started to take over timekeeping from sundials, which had served humanity for centuries, did the difference between clock time and solar time become an issue. Apparent time (or true or real solar time) is the time indicated by the Sun on a sundial, while mean solar time is the average as indicated by clocks.

Until 1833, the equation of time was mean minus apparent solar time in the *British Nautical Almanac* and *Astronomical Ephemeris*. Earlier, all times in the almanac were in apparent solar time because time aboard ships was determined by observing the Sun. In the unusual case that the mean solar time of an observation was needed, the extra step of adding the equation of time to apparent solar time was needed. Since 1834, all times have been in mean solar time because by then, the time aboard most ships was determined by marine chronometers. In the unusual case that the apparent solar time of an observation was needed, the extra step of adding the equation of time to mean solar time was needed, requiring all differences in the equation of time to have the opposite sign.

Beside these astronomical facts, the Zephyros appears in a known Martin Braun look, but with a clarity and new elegant design. Inspired by a Sextant and the Sextant Scale you can find the symbol of it engraved in the unusual thick dial. Through that, the dial becomes a three dimensional look without looking fancy but only quite and classic.



The Scale for the season and the scale for the Equation Time composing the attractive counterpart together with the exceptional indication hand. Without any stylish elements the Zephyros show an all time classic look to please the eye for generations.

The name Zephyros come from the Greek Mythology. Zephyros was a son of EOS and the brother from Boreas and Notos.

Module MAB 8	Equation Of Time Indication, Season Indication
Total Number of Parts	58
Case	Typical Martin Braun Case with 42 MM diameter
Movement MAB 88	



### 3) THE CLASSIC AND THE CLASSIC CHRONOGRAPH

After launching the Classic Collection, we enhance this line now by two more dial variations, more classic and more elegant. The less features on the dial, the more we approach to the ultimate classic design. Therefore we introduce the dial with the applique, without the stripes at 6 o'clock, and one version in a plain lacquer version with exiting roman numerals.

With the enhanced collection, we appreciate the reactions from our customers, who found that the Classic with the new movement MAB 88 is a perfect Martin Braun watch and made for a real eternal classic watch.

What is more logical as to create now with our own new chronograph movement, also a classic version. The case is the same style as for the classic the pusher a beautiful framed and the case has no edges and nestle perfect on the wrist.

#### **The technical dates of the Chronograph. Caliber MAB 98**

Size	11 ½ '''
Diameter	25,60 mm
Height	6,05 mm
Power reserve	60 hours
Date	indicated by disc, quick setting with crown
Chronograph system	Column wheel chronograph with Fly back function
Automatic system	Both side winding rotor with massive 18K rose gold weight
Frequency	21600 A/h
Jewels	29
Total number of parts	270
Functions	Hour and Minute, permanent second at 9 o'clock, Date Stop second in the center, 30 minute counter at 3 o'clock



#### 4) EOS LX / BOREAS LX

Since its introduction in 2001, the striking Eos collection has caught the attention of watch aficionados and trade press around the world. A daring design, a simple concept, and a complex solution have made the Eos one of today's most sought-after timepieces in the world of fine watchmaking.

Practical and attractive at the same time, Eos models feature a register on either side of the dial that indicates the times of sunrise and sunset at the wearer's locality. This is made possible by individually fitting each watch with a personal dial for the degree of latitude and longitude at the wearer's location.

In 2002, Martin Braun came out with his next masterpiece and Eos's "offspring": Boreas. Named after the goddess of sunrise's child, Boreas is the Greek god of the north wind. Though difficult to fathom, the Boreas model was even more unique than the Eos as it contains two astronomical complications: the equation of time and the display of sunrise/sunset. The equation of time indicates the difference between mean and solar time. On this display a small hand travels across an arched scale that shows the difference of up to plus/minus sixteen minutes in relation to the mean time shown by the hour and minute hands. This is a very rare complication in high watchmaking.

Seven years after the introduction of the Eos, Martin Braun felt it was time for these well-known astronomical functions to receive a new addition to the family: a service display. This indication lets the wearer know when it's time to have the watch looked at by a professional. Like an automobile, a watch needs maintenance every five years or so—and when this time interval is up, the new indication on the watch's dial turns red, thus signaling that the movement needs attention. Only the hours that the watch has been running are counted.

Today, modern high-performance synthetic oils guarantee such a long life that the service intervals can easily be set five years apart. The mechanism is designed so that it cannot be manipulated from the outside, neither by turning the hands forward nor backward. Only the experienced hand of a professional watchmaker can reset the display during maintenance, thereby starting the cycle from the beginning.

The dial also represents a new path for the watches that solidified Martin Braun's international career. Various materials and surfaces on different levels create a completely new look. The scales of the sunrise/sunset display seem to disappear under the flange, which itself seems to hover above the dial underneath the sapphire crystal. This dial is framed by Martin Braun's new 44 mm case. Slightly modified, it cannot deny the many characteristics that make it a Martin Braun case. An innovative new element is the screw that holds the movement holder inside the case ensuring exceptional stability of the movement. Naturally, the screws used are sealed, thus in no way compromising the overall water resistance of the timepiece.



Modul MAB 9	Sunrise and Sunset Indication. Individual Manufactured cam's upon customers request. Service Indicator. Indicates when the watch needs to be serviced.
Total Number of Parts	69
Movement	MAB 88
Modul MAB 10	Sunrise and Sunset Indication. Individual Manufactured cam's upon customers request. Equation Of Time. Service Indicator.Indicates when the watch needs to be serviced.
Total Number of Parts	94
Movement	MAB 88
Case:	New 44 mm diameter case



## 5) KEPHALOS

Martin Braun extends his family named for figures from Greek mythology, fittingly correlating the classical legends with his classic timepieces. Eos (2001) was the Greek goddess of the sunrise and the matriarch of Martin Braun's now legendary family. Her child, Boreas (2003), was the Greek god of the north wind. Astraios (2005) was Eos's husband and the father of her children, including Boreas.

In 2008, Kephalos enters the scene. Somewhat of a rascal, Kephalos was Eos's mythological lover.

Martin Braun's genial Kephalos model follows last year's beautiful Selene. Though both of these wristwatches contain moon phase displays, Martin Braun had to find another solution for the new model: Selene's moon phase system can only be utilized as is thanks to the fact that there is a disk underneath the moon that covers the entire movement. This arrangement does not allow for the addition of further indications; thus, there was no possibility to enhance the system by adding more complications. Intense research led Martin Braun and his team to find a solution for the Kephalos that had not yet been done in the watch industry to date: a retrograde moon phase that has the moon moving to each phase step by step. Upon reaching full or new moon, the disc begins to turn backwards. This clever solution allows Martin Braun enough space in the module to add more features in the future. The Kephalos model does incorporate the same adjustable moon phase that was created for the Selene model, the most precise on the market, accurate for 122 ½ years.

One of the Kephalos system's useful new features includes an indicator that displays whether the moon is moving toward full or new moon.

The Kephalos model's other functions truly deserve being called "complications," among which is Martin Braun's first annual calendar—one that features a retrograde date.

An annual calendar describes a mechanism that automatically takes into account the length of the month, even moving to the next after a shorter 30-day month without having to manually correct the window to reach the "1" of the next month. It is only on March 1 that one must correct the date after February is over. However, during the leap year—which occurs every four years—the system does automatically correct the date, meaning that the wearer only has to correct February on this watch three times in a four-year period.

The retrograde date was designed so that the hand never covers the moon phase display, providing perfect legibility of the state of the earth's satellite.

The Kephalos also debuts Martin Braun's new case. An impressive 44 mm in diameter, it represents a striking evolution of the typical coin-edge Martin Braun case. The coin-edge design has been adapted to the larger case diameter, providing the case with a fresh, modern look. The real design progress here can be found in the lugs, coupled with a new shape and a completely new finish on the side with lavishly deepened surfaces that are incredibly difficult to manufacture and provide with an exclusive finish uniting matte and polished facets. The design of the case back is also completely new. With last year's Selene and Falcon Claw models, Martin Braun introduced a case back located underneath the crystal that included an asymmetric exhibition window designed



to reveal the beauty of the movement. The new case back also does not hide the wonderful mechanics found in Caliber MAB 88, but the engraved name of the company can now also be found underneath the crystal, forever protected from any signs of wear and tear.

Another case innovation can be found in the lugs, where there is now a screw gripping the movement holder inside the case. This safety system avoids shifting inside the movement should the watch be subjected to shock and guarantees that the system can be perfectly centered during assembly. Gaskets underneath the screws also guarantee that the case is water-resistant to a minimum of 50 meters. Like on all Martin Braun cases, the bezel is screwed down to preventing it coming off by accident should the watch be subjected to rougher treatment.

Modul MAB 7	Annual Calendar with retrograde Center Date, Day and Month. 1 Day to correct in 4 Years (February, Leap Year) Retrograde Moonphase. Accurate for 122 1/2 years, Adjustable by the minute, Moonphase indicator.
Total Number of Parts	163
Movement	MAB 88
Case	New 44 mm case

#### Technical Information

Displays	Hours, minutes, annual calendar with retrograde date, day, month, retrograde moon phase
Case	Stainless steel, 44 mm in diameter, screwed-down case back
Case height	14.5 mm
Crystal	sapphire crystal
Strap	Hand-sewn alligator skin strap with Martin Braun buckle or deployant clasp, screwed-in strap lugs, 20 mm width at lugs
Buckle	Stainless steel with engraved Martin Braun logo
Water resistance	50 meters (5 atm)

#### Technical Information Caliber MAB 88

Winding	Bilateral automatic winding, ball bearing rotor
Diameter	11 ½ lines
Height	3.6 mm
Frequency	28,800 vph
Power reserve	42 hours
Jewels	25
Fine tuning elements	Fine adjustment system, Incabloc shock protection
Decorative elements	Blued screws, blued winding wheels, perlage, côtes de Genève, decorated plate featuring Martin Braun's stylized sunburst logo over the rotor's ball bearings, finely finished. Rose Gold mass for the rotor.