



THE WORLD OF FINE WATCHES

WatchTime


HOLIDAY GIFT GUIDE 2014

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WatchTime

THE MAGAZINE OF FINE WATCHES

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| Executive Editor | Norma Buchanan |
| Managing Editor | Dara Hinshaw |
| Associate Editor | Jay Deshpande |
| Digital Media Editor | Mark Bernardo |
| Art Direction/Design | Publishers Factory, Munich |
| Contributing Writers | Gwendolyn Benda Gisbert L. Brunner Rüdiger Bucher Maria-Bettina Eich Jens Koch Alexander Krupp Martina Richter Thomas Wanka Neha S. Bajpai Aishwarya Sati |
| Translations | Howard Fine Magdalena Grau Joanne Weinzierl |
| Photographers | Robert Atkinson Nina Bauer Marcus Krüger OK-Photography Eveline Perroud Nik Schölzel Zuckerfabrik Fotodesign |
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A. LANGE & SÖHNE

A. LANGE & SÖHNE'S headliner this year is the Richard Lange Perpetual Calendar Terraluna, and as is the brand's custom, an enormous replica of that watch graced its SIHH booth. However, Lange CEO Wilhelm Schmid told us that another new watch almost served as the brand's centerpiece: the 1815 Tourbillon.

The tourbillon has long been something of a contradiction. It is offered as the ultimate in timekeeping precision, yet because of its construction, a tourbillon is difficult to synchronize with a reference time source due to the lack of stop-seconds and zero-reset functions. Lange's new 1815 Tourbillon solves those problems. When the crown is pulled out, the

balance inside the tourbillon cage stops and the seconds hand jumps to the zero position. The watch can then be perfectly synchronized with a reference source or signal. Both the stop seconds and zero-reset systems are patented.

The 1815 Tourbillon's case measures 39.5 mm in diameter and 11.1 mm high. It is available in rose gold, priced at \$164,100, and in a limited edition of 100 pieces in platinum, priced at \$201,300.

At the other end of the price spectrum, Lange also launched a new 1815 three-hand reference in a 38.5-mm case, which is a bit smaller than the current 40 mm. The case is also slightly thinner, at 8.8 mm, compared with 8.9 mm for the current model. Fear not, lovers of larger

watches – the 40-mm model will not be discontinued.

The overall aesthetic remains unchanged, as does the solid-silver dial and the three-quarter-plate L051.1 movement. The movement consists of 188 parts, many of which are hand-decorated. The plates and bridges are made of untreated German silver, which takes on an attractive patina over time. The balance cock is hand engraved, meaning that no two are exactly the same. The movement runs in 21 jewels at 21,600 vph and has a 55-hour power reserve. Five of the jewels are set in gold chatons. The new 1815 is offered in rose gold and yellow gold, at \$24,800, and in white gold, at \$26,000.



*The 1815
tourbillon*



The new, 38.5-mm version of the 1815

The new 26470 version of the Royal Oak Offshore comes in steel (below) or rose gold (right).



The updated Royal Oak Offshore has a transparent caseback.



AUDEMARS PIGUET



Ceramic has replaced rubber for the crown and push-pieces.

THE ROYAL OAK OFFSHORE Chronograph 42MM got a tweaking this year to make it look more up to date. Audemars Piguet calls it “the 26470 evolution” (the new 26470 models replace the existing 26170 models). The company said the made-over models were “distinguished by a more technical, sculpted aesthetic.” Black ceramic has replaced rubber in the crown and push-pieces, and the push-pieces have been enlarged. The minutes and hour hands are broader than before, and are faceted to make them more lumi-

nous. A ribbon of polished metal has been added to the edges of the hour markers and to the subdials and the date window. The watch now has a transparent back to show off AP’s in-house Caliber 3126 with its 22k-gold rotor.

There are six models in the 26470 family: four in steel and two in rose gold. The steel models are \$25,600 on a rubber strap and \$26,000 on an alligator one. The rose-gold versions are \$40,700 on an alligator strap and \$69,200 on a bracelet.

BAUME & MERCIER

THIS BRAND UNVEILED several new additions to its Clifton collection, which it launched last year. Among them was a steel-cased chronograph model, powered by the ETA 7750 and available on an alligator strap (black or brown) or steel bracelet. The case is 43 mm in diameter and has a sapphire back. The black-strap version has blue hands; the brown-strap and bracelet versions have golden ones. The case is water resistant to 50 meters. Price: \$3,800 on a strap and \$3,900 on a bracelet.

Another new Clifton model is the Retrograde Date Automatic, which also comes in a 43-mm steel case. The movement is a Soprod 9094, which has a power reserve of 42 hours. There is a power-reserve display at 6 o'clock and sapphire crystals on the front and back. The strap is brown alligator. Price: \$5,700.

Front and back of the Clifton chronograph



The Clifton Retrograde Date Automatic





*The Calibre de Cartier
Diver*

CARTIER

CARTIER MADE BIG NEWS at both ends of the haute horlogerie spectrum this year. At the high end was the \$204,000 Astrocalendaire. For those seeking something a bit more affordable (relatively speaking), and a bit more sporty, there's the new Calibre de Cartier Diver. It generated much talk at SIHH: "Cartier" and "Diver" aren't words you'd expect to find in the same name.

The new Diver looks the part, but it is not just a pretty face. It's a genuine ISO-6425-certified divers' watch. This is a claim few others can make. In a nutshell, the ISO standard covers bezel and dial construction and markings; legibility; magnetic, shock, and chemical resistance; and strap and spring-bar strength. It also says the watch must be water resistant to 100 meters and must provide a way for the diver to tell whether the watch is running (this requirement is usually satisfied by a luminous seconds hand).

To meet the standards, Cartier designed a new watch case from the ground up. The case is stronger and benefits from a thicker sapphire crystal, yet it measures only 11 mm thick. The divers' bezel rotates in 120 increments controlled by three clicks, enabling half-minute adjustments. The dial and hands are well supplied with Super-LumiNova to make them easy to read under water.

The Diver is powered by Cartier's in-house Caliber 1904 MC, featuring ceramic ball bearings in the bidirectional automatic winding system and twin mainspring barrels to deliver consistent torque as the mainsprings wind down.

The Calibre de Cartier Diver in stainless steel on a rubber strap retails for \$8,200. Choosing a steel bracelet raises the ante to \$8,900.

For situations requiring a bit more elegance, Cartier launched the 43.5-mm Rotonde de Cartier Day and Night. The eponymous display, indicated by an artistically rendered sun and moon, occupies the entire upper half of the dial. The moon-phases are indicated by a retrograde hand that sweeps across the lower half of the dial. Cartier's in-house Caliber 9912 MC animates the displays. The movement is decorated with straight graining and with the prominent beveling found in Cartier's Fine Watchmaking collection. The Day and Night is available in some Cartier boutiques, priced at \$42,500 in rose gold and \$45,500 in palladium.



*The Rotonde de Cartier
Day and Night*

GREUBEL FORSEY



*The Double
Tourbillon
Technique 30°
Bi-color*

THIS YEAR'S BIG WATCH from Greubel Forsey is the QP à Équation, the brand's new perpetual calendar.

Another new watch from Greubel Forsey is known officially as the Platinum GMT, but calling this watch simply a "GMT" is like calling the Concorde a plane. The miniature Earth at 8 o'clock rotates in the same direction, and at the same rate, as our planet, providing the owner with an instant indication of the time around the world. A glance tells you that it is time to rise in Shanghai, time to leave the office in New York, and time for bed in London.

Parked next to the globe is a 24-second tourbillon inclined at 25 degrees relative to the plane of the dial. A second-time-zone display, set by the adjacent button, appears at 10 o'clock. Turning the watch over reveals a disk showing the time in 24 time zones. The disk rotates in synchronicity with the globe and provides more precise world-time data. The case measures 43.5 mm by 16.14 mm.

Some may wish to hold the world in the palms of their hands. For others, having it on their wrist will do just fine. For them, the Platinum GMT is priced at \$630,000.

Greubel Forsey also introduced the Double Tourbillon Technique 30° Bi-color, which is available in two case materials: platinum and 5N rose gold. Each case measures 47.5 mm by 16.84 mm, and each features a movement with a deep black chrome finish. ADLC-plated titanium plates engraved with text summarizing the brand's philosophy highlight the sides of the case.

Each version is produced in an edition of 22 pieces. Enthusiasts may recall that an earlier version of this watch won the 2011 International Chronometry Competition in Switzerland with the highest score yet recorded – 915 out of a possible 1,000 points. The Double Tourbillon Technique 30° Bi-color is priced at \$620,000 in platinum and \$595,000 in 5N rose gold.



*The Platinum
GMT*

The Aquatimer Chronograph Edition "Expedition Charles Darwin," with a case made of bronze



The Aquatimer Deep Three



IWC SCHAFFHAUSEN

EACH YEAR AT SIHH, IWC updates one collection, and 2014 is the year of the Aquatimer. The 2014 models have a prominent new feature IWC calls the "SafeDive System." It consists of an easily grasped external bezel that controls a rotating internal bezel with a divers' scale. A clutch allows the internal bezel to rotate only counterclockwise, in 1-minute increments. To help prevent confusion, the new Aquatimers also feature Super-LumiNova in two colors: blue for the time display and green for dive times.

Included among the new models is IWC's first wristwatch in bronze, the Aquatimer Chronograph Edition "Expedition Charles Darwin." It is equipped with IWC's automatic, in-house Caliber 89365. The 300-meter water-resistant case measures 44 mm by 17 mm and features IWC's quick-change strap system. The price is \$11,100.

Diving deeper into the new lineup, we discover the Aquatimer Automatic 2000, which, as you might guess, has 2,000-meter water resistance. Inside the 45-mm

titanium case ticks IWC's *manufacture* Caliber 80110 featuring the patented Pellaton winding system with its accompanying shock protection. IWC says the design of this watch is reminiscent of the Ocean 2000, created by Ferdinand A. Porsche in 1982. The Aquatimer Automatic 2000 is priced at \$10,100.

The new Aquatimer Deep Three in titanium is the third generation of IWC divers' watches with a mechanical depth gauge. During a dive, the blue depth indicator shows the current depth while the red indicator remains at the greatest depth attained, down to a maximum of 50 meters. IWC says the Deep Three provides a complete backup system to a dive computer. The Deep Three is priced at \$19,100.

The Aquatimer Automatic 2000



*The Master
Compressor
Chronograph
Ceramic*



JAEGER-LECOULTRE

JAEGER-LECOULTRE'S BIG WATCH this year is the Hybris Mechanica 11, its ultra-thin minute repeater.

Among JLC's other new models was the Master Compressor Chronograph Ceramic. This watch features two useful complications: a chronograph and a GMT or second time zone, indicated via a second hour hand. The case measures 46 mm by 14.3 mm, and the crown features JLC's patented compression key system. A half turn of the key compresses one of the crown's four toric (donut-shaped) gaskets and locks it in a secure position that prevents the crown from being moved inadvertently. The case is water resistant to 100 meters.

The displays are highly visible and are laid out very clearly. The bright red chronograph seconds hand adds some spice. The small, round dial aperture

below the Jaeger-LeCoultre name is a day/night indicator.

The movement is JLC's automatic in-house Caliber 757. It runs in 45 jewels and twin barrels provide 65 hours of autonomy. The Master Compressor Chronograph Ceramic is a limited edition of 500 pieces, priced at \$15,600.

Those seeking something a bit more elegant might consider the Jaeger-LeCoultre Grande Reverso Night & Day. This is a rarity, a Reverso with an automatic movement, and, JLC says, it marks the first time the company has put an automatic into a slim, classic Reverso case (until now Reverso automatics have had larger cases, e.g. the Reverso Squadra). The Night & Day case measures 46.8 mm by 27.4 mm by 9.1 mm.

The watch bears the classic Reverso visual elements. The silver dial wears three different guilloché patterns and large Arabic numerals. Blued, faceted baton-style hands mark the hours and minutes. Where you might expect to find a seconds subdial you'll find instead a day/night, or 24-hour, indicator, decorated with contrasting guilloché patterns on its upper and lower halves.

The movement is the automatic *manufacture* Caliber 967/B. It is 4.05 mm thick, with 200 parts. It runs at 28,800 vph in 28 jewels and has a power reserve of 42 hours. Like all JLC watches, this one has passed JLC's "1,000 Hours Control" quality-assurance test.

The Reverso Night & Day is priced at \$19,200 in rose gold and \$9,750 in steel.



*The Grande
Reverso Night
& Day in
rose gold and
in steel*

MONTBLANC



The Meisterstück Heritage Pulsograph

MONTBLANC launched two new chronographs at SIHH. Each generated buzz, but for different reasons. One watch is a modern, high-tech piece that breaks new ground technically and aesthetically. The other is a study in traditional watchmaking.

The TimeWalker Chronograph 100 uses a patented system to time events to the nearest 1/100 of a second. The movement has two balance wheels: a large one for regular timekeeping that oscillates at 18,000 vph, and a smaller one for the chronograph that operates at 360,000 vph, or 50 Hz. The chronograph has its own mainspring barrel, which provides 45 minutes of power reserve, while the timekeeping barrel runs for 100 hours on a single wind. The movement is made by

the Montblanc Manufacture in Villeret. (Known as Minerva before and for awhile after it was purchased by the Richemont Group in 2006, it became Montblanc's high-end movement-making facility.) Minerva sparked interest in high-speed chronographs when it launched its first mechanical 1/100-of-a-second stopwatch in 1916.

The TimeWalker Chronograph 100 is being produced in a limited series of 100 timepieces priced at approximately \$66,000.

Montblanc's other new chronograph is part of the Meisterstück Heritage Collection, a new family of four watches issued to celebrate the 90th anniversary of the brand's well-known pen. Known as the Meisterstück Heritage Pulsograph, this watch features a 5N-rose-gold case measuring 41 mm by 11.8 mm. The movement was inspired by Minerva Caliber 13.20, a chronograph caliber dating to 1923. The new movement is a monopusher with a column wheel and horizontal coupling. The plate and bridges are fabricated from nickel silver, then rhodium plated. The bridges are beveled by hand and manually polished. All levers and springs are manually beveled along their edges. All functional surfaces are individually and manually adjusted. The chronograph bridge is engraved with the name "Minerva Villeret."

The Pulsograph case is set with a diamond cut in the shape of Montblanc's six-pointed star emblem. This watch was launched in the fall in a limited edition of 90 pieces and priced at approximately \$36,000.



The TimeWalker Chronograph 100

*The Luminor
Base 8 Days
Acciaio*

*The Radiomir
1940
Chronograph*



PANERAI

THE NEW OFFERINGS from Panerai included the Radiomir 1940 Chronograph, whose case is based on a transitional design Panerai employed beginning around 1940. In another historical hat-tip, the case, 45 mm in diameter, sports a 2.8-mm-thick Plexiglas crystal. The dial is a new design with a tachymeter scale. The continuous seconds are located at 9 o'clock and a 30-minute counter is at 3 o'clock. The case is water resistant to 50 meters.

The movement is the OP XXV caliber, developed on a Minerva 13-22 base. Minerva began supplying Panerai with movements in the 1920s. The hand-wound movement features a column

wheel and a swan-neck regulator. Several components are individually chamfered and polished. The balance wheel vibrates at a classic 18,000 vph.

The Radiomir 1940 Chronograph is available in platinum (PAM 518) for \$78,000, rose gold (PAM 519) for \$58,500, and white gold (PAM 520) for \$61,200.

If your interests tend toward simpler fare, there's the Luminor Base 8 Days Acciaio with a black sandwich dial. This is one of five new Luminor models featuring the P.5000 in-house, eight-day, manual-wind movement. The transparent caseback provides an excellent view, though most of what you'll see is a massive

plate. It makes a better door than a window, as they say, but it provides great structural rigidity.

The movement runs in 21 jewels at 21,600 vph, or 3 Hz. The variable-inertia balance is supported by a sturdy bridge that is fixed by two screws.

The eight-day power reserve is achieved by coupling two spring barrels, with toothed rims, in series. Panerai says the twin assembly enables longer, thinner springs to be used, resulting in a longer duration and greater uniformity in energy delivery.

The price for the Luminor Base 8 Days Acciaio was set at \$7,800 at the time of SIHH.



The new Tonda Métrographe chronograph comes in bracelet and strap versions.



PARMIGIANI FLEURIER

THE NEW METRO COLLECTION from Parmigiani Fleurier was inspired, the company says, by the skyscrapers of New York. It contains men's and women's watches. The men's model, available in several variations, is a chronograph called the Tonda Métrographe. It contains a new automatic movement, the PF315, powered by two series-coupled barrels, and has a power reserve of 42 hours. There are 30-minute and 12-hour counters at 9 and 6 o'clock, respectively, and a window cut into the hour counter showing the dates for yesterday, today and tomorrow (in case the minutes hand is hiding today's date). The case is 40 mm and

has a subtly asymmetric shape: the lugs on the left do not extend as far along the edge of the case as those on the right, which reach all the way to the crown. There are sapphire crystals on the front and back. The watch comes with either a black or tan calfskin strap, paired with a black or white grained dial, respectively, or a steel and titanium bracelet paired with a black dial. The leather straps are made by Hermès (which owns a stake in Parmigiani's sister company, the movement maker Vaucher. Both Parmigiani and Vaucher are owned by the Sandoz Family Foundation.) Price: \$12,200 on a strap and \$12,900 on a bracelet.

PIAGET

THIS BRAND'S BIG (or, rather, wafer-slim) new introduction for men was the Altiplano 900P, the thinnest mechanical watch in the world. For women, it was a collection of watches and jewelry called Rose Passion, which pay tribute, Piaget says, to the world-class rose garden that Empress Josephine cultivated at the Château de Malmaison, where she lived



A hand-wound Rose Passion model with cloisonné enamel dial



Above and left: three diamond Rose Passion watches. One (above) has yellow sapphires, another (far left) a pink sapphire. All have quartz movements.

after her divorce from Napoleon Bonaparte. (Piaget is donating money to restoring the Malmaison rose garden.)

The watches in the collection include one hand-wound model, powered by Caliber 430P, with a grand feu cloisonné enamel painting of a rose (\$77,500 for the model shown here). The other watches are all quartz and all heavily bejeweled. One of them, a “secret” watch, has a cover that lifts up to reveal the dial (\$186,000). Another features 16 rose petals formed by baguette diamonds and pink, yellow or orange sapphires (\$207,000). Still another has a dial surrounded by a frieze of birds and rosebush branches (\$53,500).

RALPH LAUREN

*The Sporting
Classic
Chronometer*



*The RL 67
Chronometer*

LAST YEAR RALPH LAUREN

launched its first tourbillon watch. This year the brand followed up with another: the Black Safari Flying Tourbillon. Its movement, Caliber RL167, was made by the Geneva high-end movement maker La Fabrique du Temps, owned by luxury-goods giant LVMH. The watch is self-winding and has a gold-plated micro-rotor. The case, 44.8 mm in diameter, is steel with a shot-blasted, black finish. On the periphery of the dial there's a ring of brown elm burl wood, inspired by the interior of a vintage Bugatti car owned by the designer Ralph Lauren. (For that reason, the watch bore a different name, the Automotive Flying Tourbillon, when it was first shown to the press two months before SIHH.) Price: \$80,000.

The brand also introduced two new watches with COSC-certified automatic movements. One is the Sporting Classic Chronometer (\$4,100), with a 44.8-mm steel case and seconds subdial at 6 o'clock, and the other is a 39-mm version of the RL67 Chronometer (\$3,200), which had been available only in a 44.8-mm size. Its case is steel that has been treated to give it a look the company calls "aged." Both watches have convex sapphire crystals and screw-in crowns bearing the initials "RL."

*The Black Safari
Flying Tourbillon*





*The RM 63-01
Dizzy Hands*



*The 60-01
Regatta
Chronograph
Flyback*

RICHARD MILLE

THIS YEAR RICHARD MILLE invites us to forget about time by strapping on its new RM 63-01 Dizzy Hands. The watch keeps time normally until the pusher in the center of the crown is depressed once. At that point, the sapphire glass dial begins to slowly rotate counterclockwise while the hour hand moves clockwise, both at different speeds. The motion renders the time display quite incorrect, freeing the owner from the bonds of time. When the joyous interlude comes to an end, the owner simply depresses the pusher again, and the dial and hands resume their duties, displaying the correct time.

The mechanism powering the RM 63-01 is Caliber CRMA3, a new movement developed by Richard Mille's engineers in Les Breuleux. They reinvented principles taken from chronograph design to achieve creative results. A column wheel actuates the dial's rotation and a hammer reinstates the timekeeping functions. The movement is housed in a 5N-rose-gold case that measures 42.7 mm by 11.7 mm. The RM 63-01 Dizzy Hands retails for \$120,000.

The company describes another of its new watches, the RM 60-01 Regatta Flyback Chronograph, as its "first technical watch for navigating the seven seas." The

watch is powered by the RMAC2 caliber with flyback chronograph, annual calendar with oversize date, and UTC function. The RM 60-01 case measures 50 mm by 16.33 mm.

To calculate one's location, the UTC indicator is directed towards the sun using the UTC pusher located at 9 o'clock, then the bezel is turned so that the UTC hand lines up with the actual local time engraved on the bezel's circumference. When set in this manner, the compass headings North, South, East and West on the bezel will be correctly aligned. Mille says the RM 60-01 differs from other, similar watches in that it can be properly oriented in the Northern and Southern hemispheres without any additional calculations.

The RM 60-01 Regatta Flyback Chronograph is priced at \$150,000.

ROGER DUBUIS

WHEN THE ROGER DUBUIS brand was introduced in 1995, Hommage was its first collection. Roger Dubuis has now revamped the Hommage family as the last step in a brand-wide rejuvenation project. At SIHH the brand unveiled 10 new Hommage watches, including those shown here: an automatic and an automatic chronograph. The automatic contains the in-house RD620 movement, which, like other Roger Dubuis movements, is fitted with a micro-rotor. The dial has the same deep-guilloché sunray pattern and tapered, elongated Roman numerals as the other Hommage watches. There is a small seconds subdial at 9 o'clock.

The chronograph contains Caliber RD680, also made in house, which incorporates a column wheel. The running seconds are shown at 9 o'clock and there is a 30-minute counter at 3 o'clock. The cases of both watches are 42 mm and, like all Hommage models, available in rose or white gold. Each bears a new design feature: the metalized signature of brand-co-founder Roger Dubuis on its caseback, which is made of sapphire. (Other models have the signature on the metal surrounding the sapphire window.) Prices: \$31,100 and \$33,400 for the rose-gold and white-gold automatic, respectively; \$51,400 and \$54,900 for the chronograph. Both models bear the Geneva Seal, as do all the brand's watches.



Front and back of the Hommage automatic



The Hommage chronograph





Front and back
of a Métiers d'Art
Mécaniques
Ajourées watch

The Malte
Tourbillon
Openworked



The Patrimony
Traditionnelle
14-Day
Tourbillon
Openworked



VACHERON CONSTANTIN

AFTER CONCENTRATING on women's watches at last year's SIHH, Vacheron Constantin turned its focus back to men this year, and also threw a spotlight on the art of skeletonizing. The brand launched one new openworked model available in four bezel variations: the group is called the Métiers d'Art Mécaniques Ajourées collection ("ajourée" is French for openworked). It also brought out new skeleton versions of two tourbillon watches, the Malte Tourbillon and the Patrimony Traditionnelle 14-Day Tourbillon.

According to Vacheron, the inspiration for the Mécaniques Ajourées collection came from 19th-century European railroad stations, with their arches and airy vaults and their distinctive railway clocks with Roman numerals. The movement in these watches, Caliber 4400 SQ (for "squelette"), is described by the company as "hand-sculpted," featuring manual beveling, engraving, and straightening, fine interior angles and contrasting

brushed and polished finishes. The bezels come in black, gray, or blue, all in grand feu enamel (all versions are \$75,200). There is also a high-jewelry model with baguette diamonds on the bezel. The cases are white gold and 40 mm in diameter, and the movement bears the Geneva Seal.

The Malte Tourbillon Openworked, outfitted with the skeletonized Caliber 2790 SQ, is decorated with a triangle pattern. All 246 movement parts have been hand drawn and chamfered. The case is platinum and fitted with a sapphire dial with slate gray dial ring. The watch has a date and power-reserve display. Price: \$252,300.

The Patrimony Traditionnelle 14-Day Tourbillon Openworked (Caliber 2260 SQ) features Gothic-inspired latticework. As its name suggests, it has a power reserve of two weeks. Thanks to the openworked components, you get a good look at the four stacked barrels that are responsible for that feat. Price: \$362,300.

VAN CLEEF & ARPELS

WELL-KNOWN WATCHMAKER Jean-Marc Wiederrecht, whose company Agenhor has been designing and making complicated movements for Van Cleef & Arpels for eight years, has come up with another one. It's a jumping-hour, dual-time movement incorporated in a watch called the Pierre Arpels Heure d'ici & Heure d'ailleurs (the time here and the time elsewhere). It is the first complicated watch in the Pierre Arpels collection. The watch name appears prominently on the right side of the dial. The local time and the time in a second time zone are shown in windows at 11 o'clock and 5 o'clock, respectively. The minutes are

shown by a retrograde hand and an arced scale on the left side of the dial. When the hand reaches the 60-minute marker, it flies back to "0" and the two hour indicators jump simultaneously to the next hours.

The watch is an automatic, wound by means of a platinum bidirectionally winding micro-rotor. The case is white gold and 42 mm in diameter. It has a transparent sapphire back through which you can see the movement, whose bridges are decorated with a snailed pattern. The rotor bears a blue lacquered design that mirrors the piqué pattern on the dial. Price: \$37,200.



The two hours disks jump forward simultaneously at the end of each hour.

The micro-rotor is decorated with a blue piqué pattern.



CLERC GENÈVE

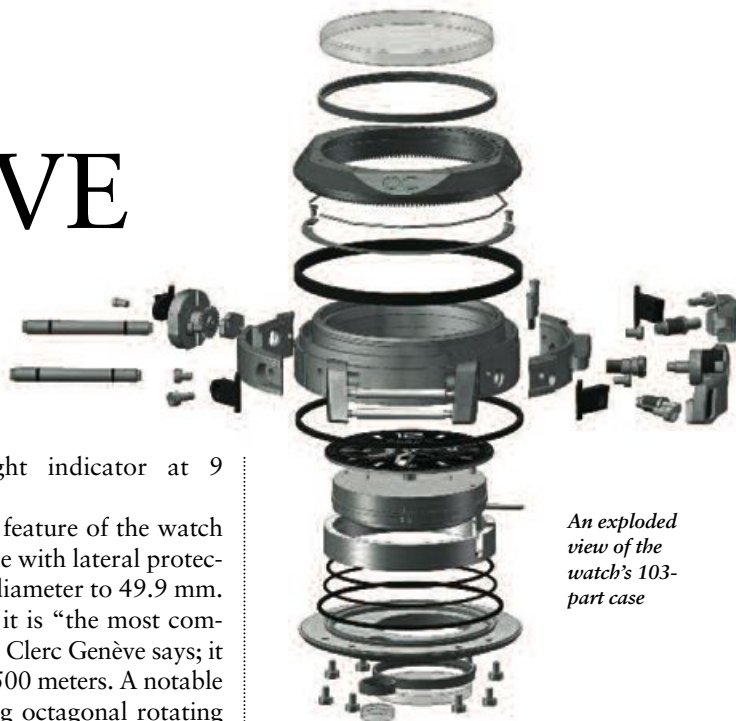
FOUR YEARS AGO, Gérald Clerc, founder of Clerc Genève, launched a new divers' watch called the Hydroscaaph. It quickly became the firm's best-selling collection and the face of the brand. The newest member of the family is the Hydroscaaph Limited Edition Central Chronograph. It's a 60-minute chronograph timer that uses four central hands to give standard time (via large hour and minutes hands) and chronograph timing (via thin chrono minutes and seconds hands).

The central chronograph allows for easy reading of the chronograph hands. Activating the broad pusher at 2 o'clock starts the central chronograph seconds hand and the minutes hand, in a different color. The pusher at 4 o'clock stops the chronograph. Timing is measured to the 1/5-second using the scale around the perimeter of the dial. The watch also features a small seconds subdial at 3 o'clock, a date window at 6 o'clock and

a 24-hour day/night indicator at 9 o'clock.

A distinguishing feature of the watch is its rugged steel case with lateral protectors that extend its diameter to 49.9 mm. Made of 103 parts, it is "the most complex on the market," Clerc Genève says; it is water resistant to 500 meters. A notable feature is the locking octagonal rotating bezel, set by a crown at 10 o'clock integrated into the case. A retractable flap on the crown locks the bezel to avoid any movement of the bezel during a dive.

Powering the watch is the C608 automatic movement, produced exclusively for Clerc by Dubois Dépraz. It has a 4-Hz frequency, a 44-hour power reserve and 47 jewels.



An exploded view of the watch's 103-part case

The watch comes in three versions: stainless steel (\$9,300), black diamond-like carbon (DLC) (\$9,300), and rose-gold and black DLC (\$16,000). Clerc is producing 500 pieces in each finish. Each watch is numbered on the caseback.





mother-of-pearl. The wearer can track the phase of the moon as it passes through the aperture. “It’s an exact moon, not a jumping moon,” says Ron Jackson, director of DeWitt America, noting that the moon-phase disk is driven by the hour wheel.

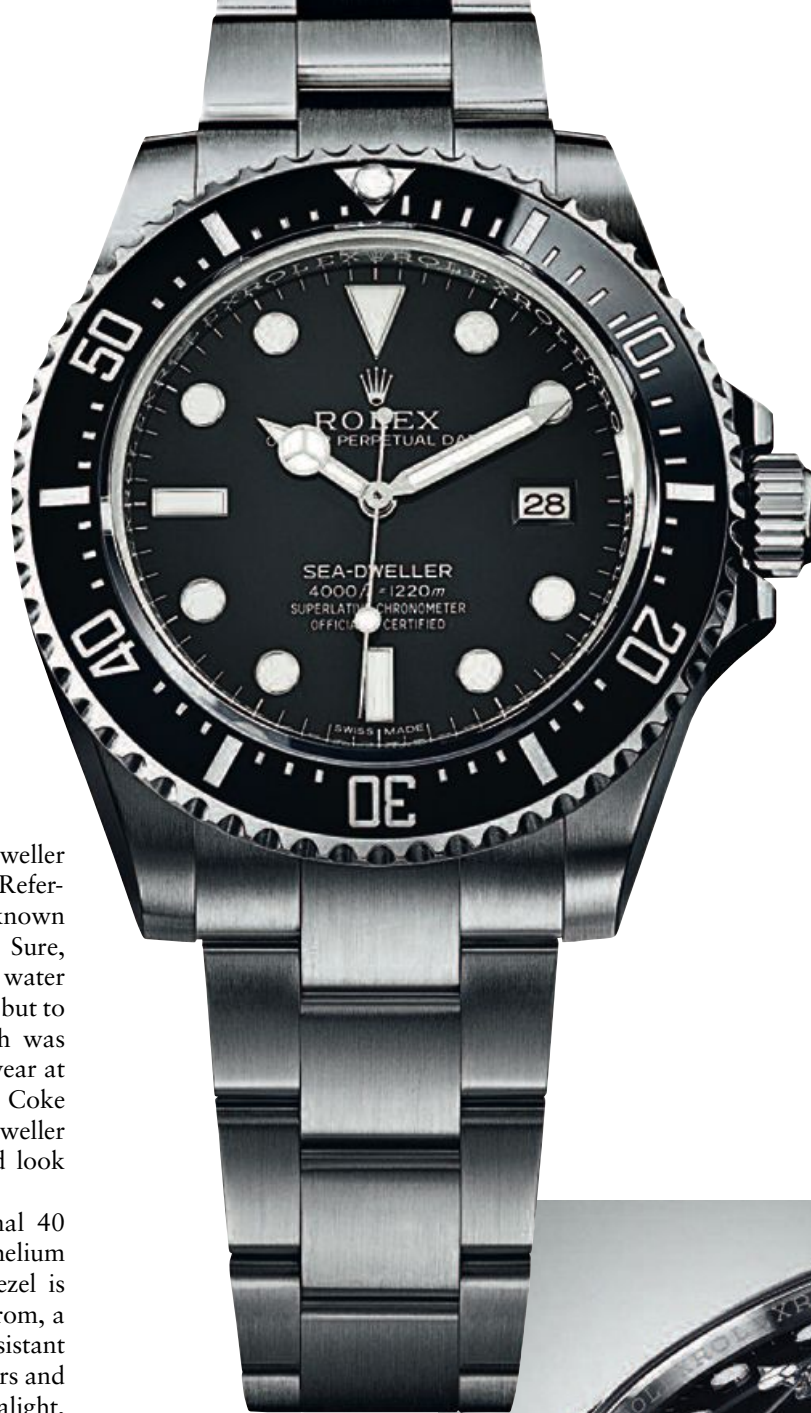
The case is 43 mm in diameter and 12.25 mm thick. It is made of grade 5 titanium and is water resistant to 30 meters. On the side of the case are “imperial” columns, a signature look of the brand. The polished crown, also made of titanium, is decorated with DeWitt’s stylized “W” logo. That logo is also engraved on the caseback. Powering the watch is an automatic movement (Caliber DW.0161) with a 28,800 vph frequency and a power reserve of 42 hours. Price: \$30,600.

DEWITT

AS YOU MIGHT GUESS from the watch’s name, the most prominent feature of DeWitt’s new Full Moon is its moon-phase display. The watch is the latest addition to the firm’s Twenty-8-Eight collection.

The entire dial of the Full Moon is designed around the unusual moon-phase indicator on the bottom half of the dial. The skeletonized left side of the silver dial, with its view of the layered movement, represents the earth as seen on a topographical atlas, says the brand’s founder, Jérôme de Witt. The right side of the dial consists of aventurine glass, whose speckled deep blue color suggests a star-studded night sky. Positioned between the two is the moon-phase module, developed and manufactured entirely by DeWitt. A rose-gold-tone aperture (designed to suggest a telescope) extends over a rotating disk made of aventurine. On it are two moons made of white





Rolex

WHEN ROLEX launched the Sea-Dweller Deepsea in 2008, it deep-sixed the Reference 16600 Sea-Dweller – a well-known watch with a dedicated following. Sure, the Deepsea offered 3,900-meter water resistance and a beefy 44-mm case, but to traditionalists, the Deepsea launch was Rolex’s New Coke moment. This year at Baselworld, Rolex launched its Coke Classic, and it’s called the Sea-Dweller 4000. It combines a time-honored look with a range of improvements.

The case measures a traditional 40 mm in diameter, and it features a helium escape valve at 9 o’clock. The bezel is Rolex’s patented, in-house Cerachrom, a high-tech material that is scratch resistant and does not fade. The hour markers and hands are illuminated with Chromalight, another Rolex exclusive that glows bright blue for excellent legibility in the dark and under water.

The new Oyster case is water resistant to 1,220 meters, or 4,000 feet, hence the “4000” in the watch’s name. The patented Triplock crown contributes to this rating. The case is machined from a block of 904L steel, which is harder and more corrosion resistant than the 316L steel that is used by many watch brands.

The case protects the Rolex Caliber 3135. This automatic movement is produced entirely in house and certified as a chronometer by COSC. The movement features Rolex’s exclusive Parachrom balance spring, which Rolex says offers

superior stability and shock protection. The Oyster bracelet with solid links is also machined from 904L stainless steel. It features the Oysterlock folding safety clasp with the Glidelock extension system, which allows the bracelet to be

extended by up to 20 mm in 2-mm increments for a comfortable fit, and the Fliplock diver extension link, which adds 26 mm to the overall length, allowing the watch to fit over a wetsuit. The Sea-Dweller 4000 is priced at \$10,400.



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Girard-Perregaux

COMING ON THE HEELS of last year's technically innovative Constant Escapement, Girard-Perregaux followed up this year with another watch designed to demonstrate the company's watchmaking prowess: the Tri-Axial Tourbillon. Unlike a traditional, single-plane tourbillon, the Tri-Axial rotates in three cages, on three planes, at three different speeds: 30, 60 and 180 seconds. The entire mechanism is 13.78 mm in diameter and weighs only 1.24 grams. The cage and drive systems are steel while the support pillars are titanium. The balance wheel has 16 gold micro-adjustment screws and beats at 21,600 vph (3 Hz). The mechanical ballet is visible through a dial aperture at 9 o'clock. A dome in the sapphire crystal allows sufficient space for the tourbillon to rotate.

The manual-winding Caliber GP09300 measures 36.10 mm in diameter and 16.83 mm in height. It contains 317 pieces and offers a 52-hour power reserve, which can be tracked via a curved display on the dial. The move-

ment features several types of hand finishing, including mirror polishing, chamfered edges, and circular graining. A sapphire window on the left side of the case allows a view of the tourbillon.

Skeletonized rose-gold hands display the hours and minutes on a small dial that

features a clous de Paris motif with rose-gold numerals and indexes. The minutes are indicated on a separate ring with white numerals against a black background.

The Girard-Perregaux Tri-Axial Tourbillon is limited to 10 pieces, each priced at \$510,900.





Patek Philippe

PATEK PHILIPPE expanded its collection of complicated Nautilus models with the launch of the new Ref. 5990/1A Travel Time Chronograph in steel. This model replaces the Nautilus chronograph, Ref. 5980/1A, which was first presented in 2006 to mark the 30th anniversary of the Nautilus collection.

The new Nautilus displays two time zones with two hour hands on the same axis. The lower, home-time hand is skeletonized, and the upper, local-time hand matches the minutes hand. When you're home, the two hands are superposed. When you're on the move, you can adjust the local-time hour hand in one-hour steps with the plus and minus correctors on the left side of the case. Each hour

hand has its own day/night indication. The dial is black with a light-to-dark color gradation on top of the familiar horizontal embossed Nautilus pattern accented with 10 applied luminous hour markers in 18k white gold.

Adding the travel-time complication required a new case design, and a new movement. The caliber is CH 28-520 C FUS. It features a chronograph mechanism with a traditional column-wheel design and an innovative disk clutch, supplemented with the travel-time mechanism. Patek says this device dates back to a patent it received in 1959.

The date display coupled with local time (originally an aperture date at 3 o'clock in the Ref. 5980 Nautilus

chronograph model) has been repositioned to 12 o'clock as an analog date, and the counter at 6 o'clock that tallied hours and minutes has been converted into one that tallies minutes only: 60 rather than 30 as before. This new construction required 47 additional parts, yet the new movement is only 0.3 mm higher than its predecessor. Patek saved space by replacing the tall Breguet overcoil balance spring with its proprietary Silinvar Spiromax spring, which is flat.

The new Nautilus Travel Time Chronograph is priced at \$57,300.

| Arnold & Son

FOR THE SECOND YEAR in a row, Arnold & Son was among the most talked-about brands at Baselworld. It's tempting to focus on the super-high-end models, but limited production and six-figure prices mean few will enjoy them. Instead, we will look at two, more affordable models. One is new, and the other is a steel version of one of last year's much-discussed introductions.

The new watch is known as the CTB. The initials stand for "Chronograph True-Beat," and as you may surmise, the watch is a chronograph with a true beat, i.e., dead beat, continuous-seconds hand that jumps forward once per second. Arnold claims this complication combination is a world first.

When the chronograph on the CTB is running, the two co-axial, centrally mounted seconds hands present a surpris-

ing visual treat. While the continuous seconds hand is advancing in 1-second increments, the chronograph seconds hand is, by contrast, moving in smooth "sweep" fashion, measuring eighths of a second.

The column-wheel A&S 7103 movement is contained in a stainless-steel case; the watch is priced at a relatively affordable \$27,135. A&S is here bucking the standard watch-industry practice of launching an impressive new caliber in a

platinum watch, or perhaps a gold one, usually as a limited edition, at a premium price.

Another new "value for money" watch from Arnold is the Time Pyramid in steel. This watch launched in gold to raves last year. Its skeletonized, pyramid-shaped movement appears to float between sapphire crystals. Twin main-spring barrels form the broad base at 6 o'clock, while the balance wheel tops the triangle at 12 o'clock. A linear gear train runs vertically, connecting the two. Twin power-reserve indicators display the state of wind for each barrel. The watch is \$29,850.

The Chronograph True-Beat



The Time Pyramid in steel



The B-Rocket bike that Shaw Harley-Davidson designed for Bell & Ross



Bell & Ross

A HARLEY-DAVIDSON concept motorcycle called the B-Rocket provided inspiration for two new Bell & Ross watches, the BR01 B-Rocket and the BR03 B-Rocket. Bell & Ross commissioned Shaw Harley-Davidson to design the bike, which the watch company says harks back to experimental jet design of the 1960s, a period Bell & Ross describes as a “heyday in aeronautics when anything seemed possible.” Both watches have the same red and black color scheme as the bike and the same matte metal finish. The red triangles at 12 o’clock on both watches were borrowed from red triangles on the bike’s tachymeter scale and turbines. The watches’ padded leather straps, with red edges, were modeled on the bike’s seat.

The BR01 B-Rocket (\$7,200) is an automatic chronograph with a tachymeter scale, date window at 4 o’clock, 30-minute and 12-hour counters at 9 and 6 o’clock, respectively, and small seconds subdial at 3 o’clock. The case, which is steel and 46 mm across, is square like the cases of the brand’s other “BR” models.

The BR03 B-Rocket (\$5,800) is an automatic with a 42-mm case. There is a big date display under 12 o’clock, toward the center of the dial. Cutouts in the dial

provide a view of the two date disks. At 6 o’clock, there’s a circular power-reserve indicator that resembles the fuel gauges in racing cars and motorcycles.

Both watches are water resistant to 100 meters and have luminous hour and minutes hands and sapphire crystals with nonreflective coatings. Both are also being manufactured in limited series of 500 pieces.



The BR03 B-Rocket

The BR01 B-Rocket



ITAG Heuer

WHEN TAG HEUER launched the Monaco V4 as a non-functioning concept watch in 2004, many were skeptical that the watch's revolutionary belt-drive movement could be made to run reliably. Indeed it took the company five years to bring the watch to market. As it turns out, perfecting the original V4 was only a training exercise for projects yet to come.

At Baselworld this year, TAG Heuer launched the Monaco V4 Tourbillon. The brand's fighter-pilot-turned-physicist

Guy Sémon told us that this new V4 is a fully functional product, not a prototype or concept watch, and that he views the V4 not as a one-off movement, but as a platform for future development. Translation: we'll see more belt-drive complications in the future.

The new model's tourbillon is belt driven: no surprise since the watch is a V4. The power-delivery system is the same as that in the original V4, though the belts have been modified for this model. Each of the Tourbillon's four transmission belts is a mere .07 mm in diameter, which is thinner than a sheet of photocopier paper. TAG claims that the belt-drive system eliminates the backlash associated with wheel-and-pinion designs, allowing the tourbillon to run more smoothly. The Tourbillon also incorporates the original V4's linear-mass winding system.

The movement is housed in a 41-mm-square case in polished grade 5 titanium with a black carbide coating.

The Monaco V4 Tourbillon is designed and hand assembled in house at TAG Heuer's haute horlogerie workshops in La Chaux-de-Fonds. The V4 Tourbillon is being produced in a limited edition of 50 pieces, priced at \$165,000.





Jacob & Co.

OVER THE PAST FEW YEARS, Jacob & Co. has brought out a new, highly complicated watch at each Baselworld. This year's was the Astronomia Tourbillon, which provides a high-mechanical yet whimsical take on the celestial watch. To develop it, Jacob & Co. collaborated with Studio 7H38, a high-mech design workshop based in Vaumarcus, in the canton of Neuchâtel.

In essence, the Astronomia plays on an idea of orbits. There are four elements around the perimeter of the watch face: a skeletonized dial with hour and minutes hands, a tourbillon, and two spheres representing the Earth and the moon. All four elements rotate around the center of the dial, making a complete revolution once every 20 minutes. But that's just the beginning. While the four "planets" are spinning around the dial, they're also turning on their individual arms. Both the moon and the Earth rotate around their arms' axes once every 60 seconds. The moon is represented by a spherical, briolette-cut diamond with 56 facets. The Earth is a white-gold globe that has

been enameled and hand engraved to accurately represent the planet's oceans and landmasses.

The four elements are attached to a four-armed carrier, beneath which is a motor barrel. Motor barrels are an alternative to the traditional mainspring barrel, and were popular at the start of the 20th century. Essentially, a motor barrel reverses the roles of the barrel and arbor found in a standard barrel. Whereas in a standard barrel you turn the arbor to wind the mainspring and then the geared barrel transmits power to the going train, here the barrel winds the spring, and that power is then transmitted through the arbor to the going train. (The Astronomia is manually wound via the caseback.) The benefit of a motor barrel is that it reduces friction and wear on the barrel, transmitting power more efficiently.

The barrel and central carrier also turn the time display and tourbillon, but at different rates than the Earth and moon. The tourbillon, which beats at 18,000 vph, makes one rotation on its axis every 60 seconds, as most tourbil-

lons do. Additionally, it revolves on the arm that carries it, turning once every 5 minutes. Since it's also rotating around the dial once every 20 minutes, the tourbillon turns on three different axes at once.

With all these axes of rotation, you'd think it could get pretty difficult to read the time. It doesn't: the arm that holds the time-display dial is equipped with a differential system, keeping the dial upright even as it makes its 20-minute orbit. Whatever position the dial is in, it will still keep 12 o'clock at the top so that it's easily legible.

To fit all of these moving parts, the Astronomia has a highly domed sapphire crystal. Its case (47 mm in diameter, 18 mm thick) is made of a DLC-coated polycarbonate composite with rose-gold features. Underneath the various orbiting bodies, the dial is made of blue aventurine to resemble a star-filled sky. The Astronomia Tourbillon is being produced in a series of nine pieces, each priced at \$540,000.

Omega

THIS YEAR OMEGA brought out an updated version of its 57-year-old divers' watch, the Seamaster 300. The new model is very close in appearance to the '50s model: it has a thin black bezel, a large arrow on the hour hand, and pointed hour indexes. Even the coloring is nearly the same, giving the new watch a vintage appearance. But underneath the dial, the Seamaster 300 is entirely fresh, with a new *manufacture* caliber that draws upon Omega's most recent technological advances.

The Seamaster 300's dial reads "Master Co-Axial." As Omega fans know, the "Co-Axial" in the label refers to the watch's co-axial escapement, invented by the great British watchmaker George Daniels and a mainstay of the Omega brand. "Master," however, is a new designation and refers to the watch's antimagnetic properties. The movement, Caliber 8400, incorporates the same antimagnetic technology that the brand introduced last year with its Seamaster Aqua Terra. It is based on the use of antimagnetic materials for various movement components, including the balance spring, which is silicon. Most antimag-

netic watches, by contrast, rely on a protective Faraday cage to shield the movement from magnetism. Omega says its system makes the Seamaster resistant to up to 15,000 gauss (1.5 tesla), the highest level of antimagnetism on the watch market today. Because the watch has no opaque inner case, Omega was able to fit the Seamaster with a transparent caseback. From now on, Omega will use "Master" on all its watches with this antimagnetic feature (and has added the word to the Aqua Terra's dial).

Caliber 8400 is a COSC-certified chronometer and is water resistant to 300 meters (the "300" in the watch's name). It runs in 38 jewels and has a power reserve of 60 hours. Its frequency is 25,200 vph.

The black dial of the Seamaster 300 has been sandblasted, and its triangular hour markers are recessed into the dial. These indexes are partly filled with "vintage" Super-LumiNova, and their coloring is unlike what one finds on most contemporary dials. In the dark, these emit a blue light. The luminous material on the hour and seconds hands also shines blue, while the minutes hand and the dot at 12 o'clock on the bezel shine green.



The original Seamaster 300 from 1957

The bezel is made of polished black ceramic, with diving-scale markers in Omega's proprietary Liquidmetal. The bezel rotates in one direction. The scratch-resistant sapphire crystal has a nonreflective treatment on the inside. The case, made of stainless steel, has a 41-mm diameter. It comes on a polished and brushed stainless-steel bracelet. The bracelet uses a "rack-and-pusher" clasp system that was patented by Omega and can be extended to fit over a wetsuit.

Six different versions of the new Seamaster 300 are being produced, in platinum, titanium, or Omega's Sedna gold (a rose-gold alloy that includes palladium). There are also two-color versions. The stainless-steel Seamaster 300 shown here costs \$6,600.

*The new
Seamaster 300*



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| Blancpain

LAST YEAR BLANCPAIN brought out an updated version of its Fifty Fathoms Bathyscaphe, which was introduced in the late 1950s. This year the brand followed up with a flyback chronograph version of the watch. It contains a new in-house movement, which features automatic winding, a column-wheel chronograph mechanism, vertical clutch, and a super-fast frequency of 36,000 vph.

The watch (including its chrono pushers, which, unlike those on many watches, can be operated under water) is water resistant to 300 meters. The balance spring is made of silicon, which resists magnetism. The rotor is made of 18k gold, coated with the platinum alloy NAC. The dial, like that of its 1950s predecessor, is domed and indicates the hours by means of simple lines and dots rather

than numerals. The date appears in a window at 4 o'clock. The dial has a sunburst finish while the subdials (chrono counters and small seconds) have snailed finishes. The rectangular hour and minutes hands are also a nod to the original Bathyscaphe.

The unidirectional rotating divers' bezel is made of ceramic and has hour markers filled with the patented Liquid-Metal alloy, which enhances the bezel's scratch resistance. The hands and indexes are coated with Super-LumiNova. The case, fitted with a see-through back, is 43 mm in diameter and available in a brushed black ceramic version with black dial (shown here, \$17,000) or in brushed steel with a gray dial (\$15,000). The watches are fitted with either a NATO fabric or sail-canvas strap; the steel version also comes on a metal bracelet.

| Armin Strom

BIENNE-BASED Armin Strom has added a date display to its Gravity watch, which has a micro-rotor visible through the dial. The original Gravity watch debuted at Baselworld last year. The Gravity Date has Armin Strom's characteristic off-center time display, with the brand name along the right side of the dial. The subdial for the small seconds at 9 o'clock has two skeletonized hands. The larger one points to the date, marked in a ring inside the seconds ring. The shorter one is a 24-hour hand and aids in adjusting the date. The black and white halves of the subdial signal day and night. Caliber ADD14, including its gold escape wheel and pallets and its micro-rotor at 5 o'clock, is visible through the

dial. The watch has a single barrel with a five-day power reserve. Its case is 43.4 mm in diameter and 13 mm thick. In keeping with Armin Strom's other collections, the Gravity Date comes in four versions named after the four elements: Air (titanium case, white alligator strap), Earth (black PVD-coated stainless-steel case, black alligator strap), Water (shown here; stainless-steel case, blue alligator strap), and Fire (rose-gold case, brown alligator strap). Each is limited to 100 pieces. The price for the Water version is \$18,300.





MeisterSinger

THE SIGNATURE of the German brand MeisterSinger is its one-hand dials. In most of its watches, a single hand circles the dial once every 12 hours; 5-minute increments are marked between the hour indexes so the wearer can read both hours and minutes from the same hand. The new Salthora offers a different twist on that theme: it, too, has just one hand, but that hand indicates minutes only. Hours are shown in a jumping display at 12 o'clock. The Salthora is the first MeisterSinger model with a jumping-hour mechanism. The watch is powered by an automatic ETA 2824-2 caliber with an added module for the jumping hour. The watch has a 38-hour power reserve. To prevent any unevenness of rate that the energy-intensive jumping-hour mechanism might cause, the tension for the switching arm of the hour disk is provided over the course of the 60 minutes by a screw attached to the minutes wheel. Power is therefore siphoned from the barrel continuously rather than all at once, and the rate is not affected much, MeisterSinger says. The Salthora has a 40-mm stainless-steel case with an exhibition caseback. It is water resistant to 50 meters. U.S. price: approximately \$3,300.

Sinn

THE EZM 13 from Sinn is a divers' watch designed to withstand rugged use. Its case, with a diameter of 41.5 mm, is made of bead-blasted stainless steel. The watch is water resistant to 500 meters and is certified based on the German standard DIN 8310. (It is also certified for the German diving standard, DIN 8306.) The watch is protected from magnetic fields up to 80,000 A/m. Special oils lubricate its moving parts to ensure that it works properly from -45 degrees to +80 degrees C (-49 to +176 degrees F). The EZM 13 uses Sinn's Ar-Dehumidifying Technology, which keeps the dial from fogging up after rapid temperature changes. The indexes and hands have a luminous coating. A date window sits below 4 o'clock. Small seconds are at 3 o'clock. The EZM 13 is powered by Sinn's automatic SZ02 movement, which is a modified version of the ETA 7750 with a 60-minute counter instead of the usual 30 minutes. The movement has 25 jewels and runs at 28,800 vph. The watch has a rotating bezel. The screw-down crown and pushers are on the left side of the case so they won't restrict the motion of the hand. As an additional protection that many divers' watches lack, the push-piece pins are mounted directly in a case aperture so that the chronograph can be activated under water without damaging the movement. Price: \$2,900.



| Oris

LIKE MOST SWISS watch brands, Oris stopped designing its own movements when the quartz crisis hit. Now the company has launched what it describes as the first movement it has developed entirely in house in 35 years. It's manually wound and has a 10-day power reserve; its energy is supplied by a single barrel. The movement, Caliber 110 (this year is Oris's 110th anniversary), is 34 mm in diameter. Oris says it was left unfinished, except for its hand-beveled and polished edges, in order to keep costs down and to fit Oris's identity as a brand for "real" (i.e., not extremely rich) people.

Caliber 110 is making its debut in a watch called the Oris 110 Years Limited Edition, which comes in both a steel case (shown here, \$6,500) and a rose-gold one (\$17,500), both 43 mm in diameter. There will be 110 pieces of each. There is an arc-shaped power-reserve indicator at 3 o'clock, with notches that are close together at the top of the scale and increasingly further apart at the bottom. The point of this design, which is patented, is to enable the wearer to see precisely how much power is left when the supply is in its final days. There is also a small seconds subdial at 9.



| Ball Watch

THE ENGINEER II MAGNETO S from Ball Watch Co. boasts a new, patented magnetic protection system. Known as the A-Proof device, the new technology shields the movement from magnetic fields up to 80,000 A/m.

Inside the Magneto's stainless-steel case, the movement is surrounded by a shield made of "mumetal": an alloy of nickel, copper, iron, and molybdenum.

Ball's Magneto has an exhibition caseback, which isn't possible in traditional antimagnetic watches because their movements are contained in soft-iron inner cases. By rotating the Magneto's bezel, you can open or shut a diaphragm mechanism, like the iris in a camera, underneath the sapphire caseback. When it is open, you can see the movement, and when it's closed, the caliber is entirely protected.

The Engineer II Magneto S has an automatic RR1103-CSL movement. It is COSC certified as a chronometer. To protect it against shocks up to 5,000 Gs, it also uses Ball's patented SpringLock system. The case is stainless steel and is water resistant to 100 meters. It is 42 mm in diameter and has a screw-down crown. The watch comes on a black cordura strap. U.S. price: around \$3,399.

Tudor

THE TUDOR HERITAGE RANGER

draws upon a military-style watch of the same name that the brand introduced in 1967. The most distinctive feature of the Ranger is its brown leather bund strap. Like a NATO strap, it is a single piece of material, running underneath the watch case. It is especially tailored to the watch, with a tapered oval to fit the shape of the case. It has visible white stitching along the sides; the thin edges are painted black. Leather also runs around the crosspieces, so the watch is fully embedded in its strap.

If the bund strap isn't your cup of tea, Tudor also offers the Ranger with a steel bracelet, or a darker brown strap in a more traditional style. All these options have a satin-finished folding clasp and safety catch. All versions of the Ranger also come with an additional fabric strap in a distinctive woven camouflage pattern.



The Ranger has a high-contrast dial, with hand-painted, Super-LumiNova numerals at 12, 3, 6 and 9 o'clock. The numerals are domed to give the dial greater depth. The watch is powered by automatic ETA Caliber 2824. Its case is

41 mm in diameter and is waterproof to 150 meters. The crystal is made of sapphire and is domed.

The bracelet version costs \$2,950; the leather strap options are \$2,825 each.

Casio



A NEW ADDITION to the Pro Trek family, the PRW6000Y is a rugged outdoors watch with a compass, barometer and altimeter, among other functions. With Casio's Triple Sensor Version 3, the sensors for these functions are significantly smaller than in older models with similar functions: they take up only 5 percent of the space they used to and consume 1/10 of the energy. The watch takes altitude readings once per second at a resolution accurate to one-meter increments. The compass can take 60 seconds of continuous measurement.

The solar-powered watch is designed to charge in low levels of sunlight or in fluorescent light. It also has an automatic backlight that adjusts to ambient conditions so that it gives the appropriate amount of illumination. An atmospheric pressure-trend alarm can alert you to

sudden shifts in barometric pressure. If the weather is changing and you're about to be caught in a downpour, the watch will make sure you're the first to know.

For accurate timekeeping, the PRW6000Y employs Casio's Multi-Band 6 technology, receiving radio signals from six atomic clocks around the world. The watch synchronizes automatically with timekeeping stations in the U.S., the U.K., Germany, China and Japan (which has two stations).

The PRW6000Y's other features include a 1/100-second stopwatch, a countdown timer, multiple alarms and world time. All of the functions can be accessed by way of the electronic crown, which lets you toggle between different modes and activate the various functions. The watch comes on a carbon insert strap. Price: \$600.

| G-Shock

THIS YEAR CASIO introduced its first GPS-synchronized G-Shock watch. The GPS Hybrid Wave Ceptor is an analog watch that combines GPS information and radio wave signals. (Casio had a large, bulky Pro Trek watch with GPS in the late '90s, but it was only used for location finding, not for time synchronization.)

The GPS Hybrid Wave Ceptor can synchronize to GPS and smartphone devices and can check its own timekeeping accuracy against satellites and atomic timekeeping signals. The watch takes 40 seconds to receive your current location and time data, or 10 seconds for time data alone. It can also receive signals indoors, which was a challenge for earlier GPS-syncing watches.

Casio collaborated with Sony to make a new integrated GPS circuit for the watch, which Casio says consumes less power than other GPS devices.

The watch uses Casio's Multi-Band 6 technology to receive radio signals from one of six atomic-timekeeping stations around the world. Where a signal is not available, the watch will instead calibrate by GPS signal.

The GPS Hybrid Wave Ceptor is available in the U.S. at a price of \$950.



| Hublot

AMONG HUBLLOT'S several Baselworld introductions was the Classic Fusion Cathedral Tourbillon. This watch is Hublot's second tourbillon minute repeater, updating a caliber that the brand introduced in 2010. The slide that activates the repeater is completely integrated in the lug on the left side of the case.

Hublot's original minute repeater tourbillon movement was the HUB8000, which had a flying tourbillon. The Cathedral's new movement is the HUB8001, a manual-wound caliber with a redesigned time-setting function as well as a classic tourbillon. The tourbillon has a 13.6-mm cage with a barrette visible through the dial. The HUB8001 has 319 components and 30 jewels. Its frequency is 21,600 vph.

The Cathedral is skeletonized, and most of the movement is on display on the dial side. Its case is 45 mm in diameter and comes in a type of rose gold that Hublot calls "King Gold" (in a limited edition of 50 pieces, \$299,000) or titanium (limited edition of 99 pieces, \$264,000). Unusual for a minute repeater, the Cathedral is water resistant to 30 meters. It has a composite strap of black leather and rubber.



Tutima

THE HEADLINER for Tutima at Baselworld was the Saxon One Chronograph. The watch has two unusual features. One is the center-mounted minutes counter that tallies elapsed minutes. The other is the chronograph pushers, which follow the curve of the case and are quite inconspicuous when the watch is viewed head-on. There is a subdial at 12 o'clock that shows 24-hour time. Running seconds are at 9 o'clock and a 12-hour counter sits at 6 o'clock. The case is 44 mm in diameter and 15.3 mm thick. The crystal is made of sapphire and has a nonreflective coating on the inside. The brand's signature red stroke indicates the 12 o'clock position on the bezel. Price: \$7,700 for the bracelet version and \$7,550 for the reptile-leather-strap one.

Citizen

THE MOST IMPORTANT new watch for Citizen this year was the Eco-Drive Satellite Wave F100. The watch can receive time signals from satellites orbiting the Earth and automatically adjust itself to display the time in any of 40 time zones, indicated by a ring of city initials around the dial periphery. Citizen introduced its first satellite-signal watch in 2011 and last year brought out another with a more sensitive antenna. The F100 is an improvement over these watches because it can pick up the signal faster, in 3 seconds or less, shaving 1 second off the time required by the 2013 version. The watch is also more precise, Citizen says, and will gain or lose no more than 5 seconds a month, compared to 15 seconds for the previous version. The case, made of titanium, is 45 mm in diameter and 12.4 mm thick. The bezel is coated with DLC. The watch is powered by Citizen's Eco-Drive system, which converts natural or artificial light into electricity and stores it in a cell, eliminating the need for battery changes.

The Satellite Wave F100 ("F100" is the name of the movement) also has a perpetual calendar. There is a date window at 3 o'clock; a subdial between 7 and 8 o'clock shows the day and also contains an indicator showing how much light is entering the watch at any given time. Three indications near the top of the dial give information about the satellite signal reception. "RX" means the watch is in reception mode, "OK" means it has picked up a signal, and "NO" means it has failed to pick one up. Price: \$2,000.





Bremont

THE NEW MBIII is the latest in Bremont's series of "MB" watches, the product of a partnership with Martin Baker, the British manufacturer of aircraft ejection seats. The watch has a GMT function. An interior bezel with 24-hour markings can be rotated in either direction via the crown at 4 o'clock. The movement, the BE-93-2AE, is an automatic with a Glucydur balance, Anachron hair-spring, and Nivaflex 1 main-spring. A COSC-certified chronometer, it has a frequency of 28,800 vph and a power reserve of 42 hours. The hands are treated with Super-

LumiNova. The date window is at 3 o'clock. The MBIII's case, 43 mm in diameter, is made of stainless steel. It uses Bremont's so-called "Trip-Tick" case construction, which enables the company to cover the middle section of the case with a variety of materials for different looks. The MBIII's knurled middle barrel section comes in various colors: bronze, dark gray or orange. In a nod to the corporate partnership, the counterweight for the seconds hand has a black and yellow loop, just like the pull handle on Martin Baker ejector seats. The MBIII costs \$5,995.

Frédérique Constant

FOR THE 10TH ANNIVERSARY of its Heart Beat Manufacture collection, Frédérique Constant has introduced a new *manufacture* movement with a silicon escapement. The FC-945 Silicium Heart Beat Calibre vibrates at 28,800 vph. It is a 13 1/4-ligne automatic movement with a 42-hour power reserve. It has a silicon escape wheel and anchor. The balance (the "heartbeat" of the collection's name) is visible through the dial opening at 6 o'clock. The watch has central hour and minutes hands, a moon-phase and date display at 12 o'clock, and a small seconds subdial at 9 o'clock. The dial is decorated with a guilloché pattern and Geneva waves. The watch comes in a stainless-steel or a rose-gold case with a 42-mm diameter. It has a sapphire crystal and an exhibition caseback. For the first edition of the new Heart Beat Manufacture, 188 pieces will be available each in rose gold and in steel. For the steel model shown here, the price is \$6,500.



| Seiko

SEIKO MAY BE one of the best-known watch brands in the world, but ask the average American about Prospex watches, and they are likely to respond with a blank stare. Among American Seiko enthusiasts, however, Prospex has achieved near-cult status, fueled in part by their limited JDM, or Japan Domestic Market, availability.

At Baselworld, Seiko announced that it is launching the Prospex line internationally.

The Prospex name is a play on “professional specifications” (as in “pro specs”), and these tool watches are known for toughness and value.

The global Prospex launch is headed up by the Kinetic GMT Diver. It uses the same double-case system that Seiko used for its well-known Professional 600M watch of 1975. The 47.5-mm case has elements of Seiko’s much-loved “tuna” divers’ watches (as in “tuna can” size and shape). The dial and nonreflective sapphire crystal are designed to maximize legibility. The Caliber 5M85 Kinetic movement is powered by the motion of your wrist and is accurate to +/-15 seconds per month.

This Reference SUN019 Kinetic GMT Diver is available with a steel bracelet or with a silicone strap, priced at \$695.



| Rado

THE “CERAMIC TOUCH TECHNOLOGY” that Rado introduced last year has now been added to the HyperChrome collection. The HyperChrome Ceramic Touch Dual Timer can immediately be recognized as a touch-controlled watch, since it has no crown. It has hour and minutes hands for two time zones, displayed on the main dial and on a subdial at 6 o’clock. To set the main time, place your finger at 10 o’clock on the ceramic case. When the minutes hand moves and the watch beeps, it is ready to be set. Sliding a finger along the left side of the case will set the hour hand forward or back; the right side changes the minutes. The minutes hand on the second-time-zone subdial will also move to stay aligned with the local-time minutes hand. To set the second time zone, place a finger at 8 o’clock until the watch responds. Setting the hours works the same way as with the larger time display; the minutes on the subdial move in 15-minute increments. This way, the watch can be set to any time zone, even ones that are a quarter hour off from your home time. To swap the time on the two displays, touch the case at 9 and 3 o’clock simultaneously and the hands will switch places. The watch comes in gray, white or black ceramic and on a leather strap. The version shown here is \$3,000.



Christophe Claret

THIS YEAR CHRISTOPHE CLARET'S new models included the Maestoso. This watch is doubly rare: it incorporates both a cylindrical balance spring and a pivoted detent escapement that took Claret seven years to perfect. These components date to the golden age of precision chronometry, when an accurate timekeeper on board a ship meant the difference between knowing your location and being lost at sea. Detent escapements trump even tourbillons for timekeeping precision, yet they are almost never found in wristwatches because they are extremely sensitive to shocks.

Claret solved the problem with a mechanism in which an anti-pivot cam, integral to the spring balance, works in conjunction with a safety finger. The ensemble pivots on a ball bearing that distributes the load on the escapement. A separate, flexible thrust bearing absorbs excess energy. Sapphire bridges provide an unobstructed view of the mechanism.

The movement is also unusual in that it runs at 2 Hz, or 14,400 vph. Twin barrels housing four mainsprings provide the power. To guarantee stable energy delivery throughout the 80-hour power reserve, Claret fitted the movement with a constant-force spring, wound by the barrel. A patented stop-seconds mechanism facilitates precision time setting. All of this fits in a case measuring 44 mm in diameter.

The Maestoso is available in three versions: 5N rose gold (\$215,000), anthracite PVD titanium with white gold (\$209,500), and anthracite PVD titanium with rose gold (\$205,000).



Doxa

WE RECEIVED A BIG surprise at the Doxa booth this year. How big? Fifty-seven millimeters big. This year marks Doxa's 125th anniversary, and to celebrate the occasion, the brand presented the limited-edition (125 pieces, naturally) 57-mm-wide 8 Days Manufacture. It's powered by a revived version of the eight-days movement the company patented in 1907 for use in a pocketwatch. Indeed, Doxa claims to have been the first Swiss company to have patented an eight-days movement.

The 21-jewel movement features Geneva-waves finishing, hand engraving

and blued screws. The watch is available in six different models. Two are in stainless steel with complete dials in black or white, each with a power-reserve indicator. Two have partly skeletonized white dials and power-reserve displays: one in stainless steel and one with 10-micron-thick rose-gold plating. Two have no power-reserve indicators: one with a full white dial, and a pilots' model with a black dial in stainless steel with a vintage-looking brown riveted strap. Each offers a view of the movement through a sapphire caseback. Water resistance is 30 meters. All models are priced at \$3,900.

IHYT

THE HYDRO-MECHANICAL horologists at HYT are back with an expanded lineup of sophisticated water clocks for the wrist. For those who are unfamiliar with this young brand, it made a big splash in 2012 because of its innovative time display, which indicates hours by means of colored liquid. Working first with Jean-François Mojon and Chronode to create the original H1, then last year (and this year) with Audemars Piguet Renaud & Papi to create the H2, HYT incorporated micro-mechanical technology from several fields to create the movement. It uses twin bellows powered by twin mainsprings to pump a combination of clear and colored liquids through a thin, circular glass pipe. The line where the two liquids meet (the meniscus) indicates the hours. The minutes are indicated regulator-style via a traditional, center-mounted hand.

This year brings the introduction of several new models. The H2 headliner comes in a black DLC and 5N-rose-gold case that measures 48.8 mm by 17.9 mm. The screw-down crown is sheathed in black rubber. The case is water resistant to 50 meters. The manual-wind movement runs at 21,600 vph in 28 jewels. The power reserve is eight days. This new model is being produced in a limited series of 20 pieces and priced at \$160,000.



Mühle-Glashütte

GERMANY'S EQUIVALENT of the Navy SEALs are known as the Kampfschwimmers, or “combat swimmers.” These special operations forces train for deployment on land, sea and air. To celebrate the 50th anniversary of the elite unit’s founding, Mühle-Glashütte is launching the Kampfschwimmer watch. The sunburst dial is an attention-grabbing electric blue. The buzz-saw bezel is a nod to the commando divers’ insignia, which prominently features a sawfish. The complete insignia, with a special 50th-anniversary notation, is engraved on the solid caseback. The case measures 44 mm in diameter; the crystal is domed and 2.5 mm thick.

The movement begins life as a Sellita SW-200 automatic caliber, which Mühle-Glashütte modifies by adding its own oscillating weight and Glashütte ribbing decoration. The company also adds its so-called “woodpecker neck” fine adjustment system, which is similar in appearance and function to the better-known swan-neck system.

The Kampfschwimmer arrived at Mühle-Glashütte’s 40 U.S. retailers in early fall, priced at approximately \$3,600.





Breguet

BREGUET'S NEW CLASSIQUE Tourbillon Quantième Perpétuel is being offered in two references: 3797, with a partial dial; 3795, a skeletonized version without a dial.

Breguet says it paid particular attention to legibility when creating the design by raising the time display slightly above everything else. The hours and minutes chapter ring is frosted sapphire, and its position just above the other displays sets it apart. This construction is striking and effective, though the raised ring slightly obscures September and December on the month display. If you can remember which month it is, this won't be an issue. Just north of the time display, a blue-tipped pointer marks the date on an arc that sweeps across the top of the dial.

The one-minute tourbillon is located at 6 o'clock, secured from above by a bridge with a complex shape. A blued triple-hand mounted above the tourbillon indicates the seconds. The subdial for the days at 9 o'clock is engine-turned in waves, and a snail cam allows the days hand to jump instantaneously. At 3 o'clock, a blued-steel hand points to the months on a dial engine-turned in a sunburst pattern.

The skeletonized Reference 3795 omits the dial entirely to reveal the movement. The bridges feature lace-like engraving.

Both references are available in rose gold or platinum. The prices for Ref. 3795 are \$240,600 and \$254,900, respectively. For Ref. 3797, they're \$164,900 and \$179,200.

Breva

LAST YEAR AT BASELWORLD the then-brand-new brand Breva unveiled the Génie 01 Terre, featuring a sophisticated mechanical weather station for the wrist. This year, Breva followed up with the Génie 02 Air. Both are 100-percent Swiss-made timepieces created with movement constructor Jean-François Mojon of Chronode. The new 02 Air replaces the original's barometric "weather forecast" indicator at 2 o'clock with a large, fine-scale altimeter.

The hours and minutes are displayed on the other large subdial, located at 8 o'clock. Arcing around the top of the main display is the large-scale altitude indicator, which displays up to 5,000 meters, or 16,400 feet. The small seconds indication appears below that, at 12 o'clock.

The altitude indicators are driven by two aneroid capsules that measure air pressure. The capsules in the 02 Air were developed specifically for this watch, and they differ from the ones used in the 01 model. One of the capsules can be seen in the background at the bottom of the dial. A high-precision arm multiplies the capsules' expansion and contraction by a factor of 200 to generate the correct altitude indications. To measure altitude, the air valve must be open, and an indicator at 4 o'clock tells you whether the valve is open or closed. Below that is the 65-hour power-reserve indicator. The movement consists of 415 components and the 44.7-mm case has 88 parts.

The Génie 02 Air is a limited edition of 55 pieces in grade 5 titanium and is available with calibrations in either meters or feet. The retail price is \$132,000.





Longines

LONGINES REGISTERED the name “Conquest” with the Swiss Federal Intellectual Property Office in May 1954. At Baselworld, the brand launched a new collection of limited-edition, commemorative watches to honor the 60th anniversary of the patent filing, the new Longines Conquest Heritage 1954-2014 collection.

It consists of four timepieces, one in a stainless-steel case and three in gold cases, each bearing the same dial design as the original Conquest from 1954 and with a modest (some would say downright retro) case size of 35 mm. Also echoing the originals, the new Conquest watches have casebacks decorated with the “gold seal of Longines quality,” a gold-and-

enamel medallion. In another nod to their historical predecessors, the watches all have “Conquest” inscribed on the dials in the same typeface as the originals. The dials on three of the models – in stainless steel, yellow gold and rose gold – are silvered and adorned with the same sunburst motif as the 1954 model. The other yellow-gold watch has a gilded dial, a tribute to a later Longines Conquest model. The dials of the steel and yellow-gold models have applied yellow-gold-colored indexes, while the rose-gold model has rose-gold-colored applied indexes. All the watches contain Longines’s automatic Caliber L633, which powers a simple, three-hand time display.

Longines uses two versions of its gold-and-enamel quality seal medallion on the screw-down casebacks of the watches: the gold models have the version that depicts a constellation, while the steel model has one that represents a fish. All the watches have black alligator straps. The gold models are limited to only 60 pieces each, priced at \$5,500; the steel model, shown here, is limited to 600 pieces and costs \$1,850.

Nomos

THE MOST SIGNIFICANT feature of the Metro, a new watch from the Glashütte-based Nomos, is its in-house movement. For the first time, Nomos has produced its own escapement. The Swing System, as it is called, is the result of seven years of research and development. The Metro has a simple design, in keeping with Nomos’s characteristic minimalism. The dial is plain white with red and mint green accents. Small seconds are below the center-mounted hour and minutes hands. A large date window is at 6 o’clock. A power-reserve-indicator wheel is just off center between 12 and 1. The case is stainless steel, with a diameter of 37 mm. The Metro is 7.65 mm thick and has sapphire crystals on both sides. Through the case-back you can see Caliber DUW4401 at work. It is a manual-wind movement with a 42-hour power reserve. Its tempered blue balance spring is also visible through the back. The Metro comes on a black Horween leather strap and is water resistant to 30 meters. Price: \$3,780.



| Peter Speake-Marin

THIS YEAR AT BASELWORLD, independent watchmaker Peter Speake-Marin launched his first chronograph. It's part of his Spirit collection, whose watches feature Speake-Marin's signature, canister-shaped Piccadilly case and an hour hand with the tip shaped like a spade. The watch is called the Spirit Seafire. The Seafire was Britain's first modern carrier-based airplane – an ocean-going version of the famed Spitfire. Indeed, the name is a contraction of “Sea” and “Spitfire.”

The watch features central chronograph seconds, elapsed minutes at 12 o'clock, and elapsed hours at 6 o'clock. The continuous seconds can be tracked via a small, circular cut-out in a rotating

version of Speake-Marin's trademark topping tool at 9 o'clock. To aid legibility, each of the hands is treated with Super-LumiNova, and the central hour and minutes hands are skeletonized. The dial is black lacquer with three-dimensional Super-LumiNova markers.

The 42-mm case is grade-5 titanium, and the solid caseback is engraved with the Spirit motto “Fight, Love & Persevere.”

Speake-Marin's decision to use a third-party movement means you need not be a hedge fund manager to own this watch. The Seafire lists for 7,900 Swiss francs, which translates to approximately \$8,960 at current exchange rates.



| Laurent Ferrier

THIS INDEPENDENT WATCHMAKER, known for his command of subtle details, offers new interpretations of his Galet Micro-Rotor with new dials. Ferrier's original dials feature applied slender gold arrow hour markers, which give the watches an elegant look. The new dials are black and opaline silver, and each features a traditional railroad minutes track and straight relief-worked Arabic numerals. The new dials, like the originals, are fashioned from solid silver. The black dial is housed in a rose-gold case, and the opaline silver dial is offered in a white-gold case. Each case measures 40 mm in diameter and is 11.1 mm thick.

The movement in the new models is unchanged. Each Galet Micro-Rotor movement features an exclusive silicon escapement with double direct impulse on the balance.

Ferrier explains his system using a swing/balance wheel analogy. In a standard escapement, you push the swing once, then wait for it to return to you. In Ferrier's escapement, the swing receives a push, and at the top of its arc, it receives a second push. The power reserve remains a healthy 80 hours.

The movements are skillfully finished, with hand-drawn flanks, beveled wheel spokes, polished screw heads, and hand-crafted interior angles. The micro-rotor bridge and balance cock feature mirror polishing done by hand, and the 18k-gold micro-rotor is decorated with hand-applied guilloché. If you're wondering, “hand drawing” the flanks means hand filing the sides or edges of the plates and bridges, then applying a satin finish. This process removes burrs and machine tool marks and establishes a foundation for chamfering or beveling, which creates an angle that can be polished.

The new Galet Micro-Rotor models are priced at \$48,000.

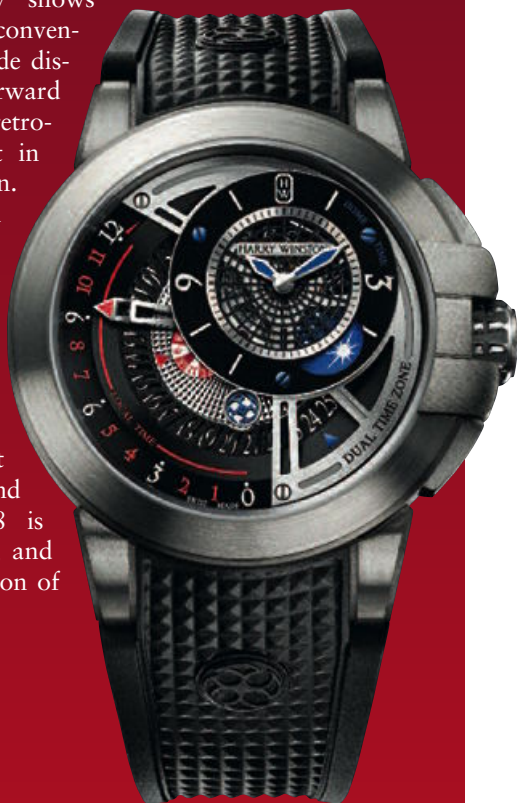
Harry Winston

THE SWATCH GROUP acquired Harry Winston last year, and as you might expect, there have been a few changes, some of which are evidenced in the latest Project Z watch, the Z8. For the uninitiated, Project Z is a series of watches produced over the past several years to showcase Harry Winston's use of Zalium, a zirconium-based alloy that is exclusive to the brand. Zalium is said to be lighter and harder than titanium, and extremely resistant to corrosion.

The first bit of news is that the new Z8 features a movement supplied by Blancpain. The Z8's caliber is based on the Blancpain automatic base Caliber 1150. As modified by Blancpain for Harry Winston, the caliber is known as HW3502. It features a flat silicon balance spring, a unique openworked winding rotor, and a circular Geneva-waves decoration that is exclusive to Harry Winston.

The Z8 is a GMT, or two-time-zone watch. The primary hours and minutes are located in the upper right quadrant of the dial. A day-night indicator appears in an aperture in the hours and minutes chapter ring, and the date appears just below the chapter ring. The second time zone is indicated by a retrograde display that runs in an arc along the edge of the dial from 6 o'clock to 10 o'clock. In an unusual move, the retrograde display shows local time. For convenience, the retrograde display can be set forward and back. Most retrogrades can be set in only one direction. All adjustments on the Z8 are made via the crown.

In another bit of news, the Z8 is priced well below past Z-series models, which have typically come in at between \$30,000 and \$40,000. The Z8 is priced at \$20,300, and it is a limited edition of 300 pieces.



Zenith

ZENITH PUT ITS signature chronograph movement on a diet to create the new El Primero Lightweight. The process of adding lightness began with the movement plates, all five of which were machined from titanium. The escapement (pallet lever and escape wheel) is silicon. To save more weight and improve the view, the movement and the dial were skeletonized. Even the date disk went under the knife. In a nod to tradition, the chronograph totalizers are light gray, blue and anthracite – emblematic of the 1969 El Primero chronograph. The El Primero 400B caliber still beats at 36,000 vph, enabling it to time events to the nearest 1/10-second. Zenith elected not to add the Striking 10th complication, saving precious micrograms and reducing the retail price by about \$3,000. (That complication allows the central chronograph seconds hand to circle the dial every 10 seconds, rather than every 60 seconds, making it easier to read elapsed 1/10s of a second.)

The diet also extended to the 45-mm case, which is fashioned from carbon fiber and aluminum, with titanium chronograph push-pieces and crown. Together, the case and movement weigh a minuscule 45 grams. Add the strap, and the tally is 72 grams, which is exceptionally light: a small, three-hand dress watch in steel on a strap will weigh 60 to 80 grams.

In the sports car world, the lightest versions often cost much more than the regular models. That's because manufacturers have to recover the costs of creating specialized parts from exotic materials over a small production run. The same math applies here. The El Primero Lightweight is being produced in a limited edition of 250 pieces, priced at \$19,000.



Ulysse Nardin

ULYSSE NARDIN plans to end its use of third-party movements by 2017. To that end, the brand has been introducing in-house movements more frequently than before. Baselworld 2014 saw the introduction of the brand's sixth new *manufacture* caliber in two years. Known as UN-334, the movement is made 100-percent in house, including the silicon escapement and hair-spring, and the patented balance wheel. The movement appears in the new Dual Time Manufacture, a travel watch that is extremely easy to use.

The central hour and minutes hands display local time, while home time is displayed in a digital, 24-hour format in the aperture at 9 o'clock. As you travel across the zones, the hour hand can be adjusted forward or back via the pushers at 8 and 10 o'clock. The hand can be adjusted across midnight in either direction, and the date automatically aligns with the displayed local time. The pushers allow local time adjustment without your having to take the watch off, and without affecting time-keeping, as can happen when you pull out a crown.

The Dual Time Manufacture is available in a redesigned 42-mm case with a display back to show off the new movement. Three versions are available: rose gold on a strap (\$26,500), stainless steel on a bracelet (\$11,400) and stainless steel on a strap (\$10,500).

Hamilton

HAMILTON HAS UNVEILED a new limited-edition pilots' watch, the Hamilton Khaki Takeoff Auto Chrono. The watch takes its design cues from a cockpit clock that Hamilton produced during World War II. It can be removed from its leather strap and placed in a wooden presentation box bearing printed aviation references such as "No Step" and "Pull to Open." While the watch is in the box, it resembles its WWII-era predecessor, which was at the time considered the most complicated aircraft clock.

The watch has a bidirectional turning reflector and flange, driven by the bezel, which can be used for a count-down. Another turning action is used to separate the 46.3-mm case, made of stainless steel and coated with black PVD, from its strap, which can be stowed at the bottom of the box when not in use. The box's surface has visible aluminum rivets and plates as well as four contemporary "instruments" to complement the watch and complete the instrument-panel look.

The Hamilton Khaki Takeoff Auto Chrono Limited Edition contains Hamilton's proprietary H-31 caliber, with chronograph functions and 60-hour power reserve. The predominantly black dial has contrasting yellow

details, and the hour markers are coated with Super-Lumi-Nova. The central chronograph hand has an airplane-shaped pointer. In another nod to historical time-keepers, the crown is positioned at 12 o'clock, with the chrono pushers on either side. The watch is limited to 1,999 numbered pieces, priced at \$3,295.





Breitling

THE BREITLING CHRONOMAT pilots' watch turns 30 this year. To mark the occasion, Breitling has launched a special series that recalls the look of the original. The Breitling Chronomat Airborne is available in two case sizes (41 mm and 44 mm in diameter) and two dial colors (black and silver).

The original Breitling Chronomat was designed for the Italian Freccie Tricolori aerobatics team. The new Chronomats are distinguished by their satin-brushed rotating bezels, equipped with four raised rider tabs. These tabs make the bezels easier to rotate even when you're wearing gloves. Other new fea-

tures include the rubber-inlay indexes on the bezel and the cream-colored, luminous indexes on the dial. The stainless-steel case has a polished finish. The models with black dials have silver-toned subdial counters and the silver-dial ones have black subdial counters. The case-back is engraved with the inscription "Edition Spéciale 30e Anniversaire" ("Special 30th Anniversary Edition") and the silhouette of an Aermacchi, one of the planes flown by the Freccie Tricolori.

The Breitling Chronomat Airborne is available on a steel bracelet (\$9,060) or a black military-style fabric strap secured by a folding clasp (\$8,030). It contains Breitling's *manufacture* automatic chronograph Caliber BR01, which is certified by COSC.

Chopard

THE NEWEST Chopard Mille Miglia watch is the most distinctly Italian timepiece in the Mille Miglia collection, which is inspired by the Mille Miglia (1,000 Miles) Brescia-to-Rome-and-back vintage car race.

Chopard has partnered with the race since 1998, producing special watches for it annually. This year, the brand opted to focus on the race's early years, when it was dominated by Italian racing teams and automobiles such as Alfa Romeo and Ferrari, by creating a watch that echoes the colors of the Italian flag.

The Chopard Mille Miglia 2014 (like many previous Mille Miglia watches, a chronograph) features a red tachymeter scale and hands, and a white dial with green minutes circle. Unlike previous Chopard Mille Miglia watches, which have straps made of rubber with a 1960s Dunlop racing-tire motif, the 2014 edition has one made of overstitched Barenia calfskin leather reminiscent of the bonnet straps on vintage racing cars.

The slender fonts on the dial are similar to those used in the 1920s. The chronograph hours, chronograph minutes, and small seconds are displayed on subdials at 6, 9 and 3 o'clock, respectively. The lugs on the 42-mm case (in either steel or 18k rose gold; 12.3 mm in thickness) are soldered rather than screwed in. The movement is COSC certified. The watch is \$5,520 in steel and \$19,110 in gold.



Hermès

THE HERMÈS DRESSAGE L'Heure Masquée (literally, “the masked hour”) derives its name from the unconventional motion of its two time-telling hands, in which the hour hand remains hidden behind the moving minutes hand until it is summoned to its proper position with the press of a push button integrated into the crown. After you release the button, the hour hand snaps back to its position behind the minutes hand. The watch also has a dual-time-zone function, in a window at 6 o'clock. The hour remains hidden (under the letters “GMT”) until the button is pressed, after which the hour numeral of the chosen second time zone pops into the window. The second time zone is set by means of the push button at 9 o'clock.

The watch contains Hermès Caliber 1925, here modified with an exclusive, patented mechanism that creates an interaction between the rack, pinion, and gear trains to stimulate the hour cam into pointing to the correct hour on demand. The dual-time indication is driven directly by the base caliber, an automatic movement with 28 jewels, a frequency of 28,800 vph, and a 45-hour power reserve.

The watch comes in steel or 5N rose gold. The caseback is transparent. The steel version is limited to 1,000 pieces and priced at \$20,750; the rose-gold version is limited to 500 pieces and priced at \$43,750.



Glashütte Original

THE GLASHÜTTE ORIGINAL SEVENTIES Chronograph Panorama Date features an entirely new chronograph movement, Caliber 37-02, which was designed and manufactured in house.

Glashütte Original Caliber 37-02 is an integrated automatic chronograph movement with a 70-hour power reserve from a single spring barrel and a simplified column-wheel mechanism. It has a bidirectional rotor and four gold screws on the balance rim for regulation.

The movement has a flyback mechanism. The small seconds display shares its subdial at 9 o'clock with a black and white power-reserve indicator, while the 30-minute chronograph counter occupies the position at 3 o'clock. The 12-hour counter, with Arabic numerals 1 through 12 on a rotating disk, is in a semicircular window beneath the 12 o'clock position; directly below it at 6 o'clock is the big date window.

The case is steel and measures 40 mm across. The caseback is transparent: through it you can see the skeletonized 21k-gold rotor with the brand's double-G logo.

There are three versions of the watch, with dials in galvanized ruthenium, silver, and blue. Prices range from \$14,900 (for rubber or leather strap) to \$16,400 (for bracelet).

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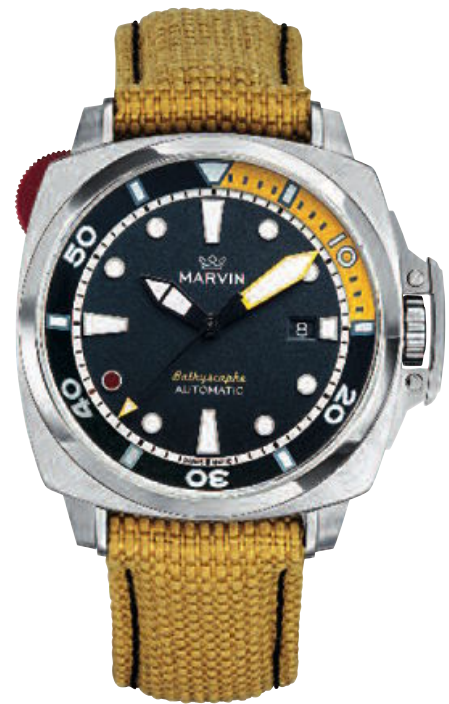


| Gucci

THIS YEAR Gucci introduced the Handmaster collection of automatic watches with rectangular cases and black dials. There is a small seconds subdial at 9 o'clock and a power-reserve display at 5 o'clock. An angled date window sits in the top right corner of the dial. The Handmaster is powered by the Sowind Manufacture's GP3300 movement ("GP" stands for Girard-Perregaux), which the brand also used in last year's Gucci Dive. (Gucci and Sowind, which is the parent company of Girard-Perregaux, are both owned by the Kering Group, known until recently as PPR.) The watch has a 46-hour power reserve. The inner rectangle on the dial bears Gucci's signature diamond pattern. The stainless-steel case measures 32.5 mm across and 33 mm from top to bottom. Through the exhibition caseback you can see a rotor decorated with the same diamond pattern as the dial. The watch is water resistant to 50 meters. It comes on a black crocodile strap. The Handmaster is being produced in a 50-piece limited edition. It costs \$8,600. A rose-gold version is also available for \$18,400 in a limited edition of 25 pieces.

| Marvin

THE MARVIN brand added a new dive watch – the Bathyscaphe Diver – to its Malton collection. The cushion-shaped case, made of stainless steel, is 43 mm across, and the screw-in crown has a clip-down crown protector. Eight screws secure the caseback. The watch's most distinctive feature is the "diving adjustment wheel" beside the top left lug. This wheel, which is bright red, turns the internal bezel to set dive times. The bezel has 120 notches. The Diver is water resistant to 200 meters. It is powered by a Sellita SW200 automatic movement, which has a 38-hour power reserve. The Diver comes with both a rubber strap and a calfskin-lined Teflon fab-



ric strap matching the dial's accent color: red, green, gray, yellow or blue. The Diver is available with a PVD-treated case, and there is also a three-link-bracelet version of the watch. Price: \$1,720.

| Milus

AMONG MILUS'S offerings at Baselworld was a new version of the Tirion TriRetrograde with rose-gold case and carbon-fiber bezel and dial. The Tirion TriRetrograde is an automatic watch with hours, minutes and date. Its most interesting feature is the three retrograde displays grouped tightly at the center of the dial. Each counts off 20 seconds. As each hand completes

its arc, it snaps back and the next hand begins to count. This function is made possible by an adapted ETA 2892-A2 H8 caliber. The retrograde module was made by Agenhor's Jean-Marc Wiederrecht, a master of retrograde displays. The case is 45 mm in diameter. The date is displayed at 6 o'clock, and the date ring is visible around the dial. Price: \$37,000.





Shinola

THE YEAR-OLD SHINOLA brand brought out its first chronographs at Baselworld as part of its Runwell collection. The chronographs use the Argonite 5021 and 5030 movements, Swiss quartz calibers by Ronda that are assembled in Shinola's downtown Detroit factory. The 5021 chronographs have a traditional two-subdial layout with date window at 6 o'clock. The 5030 version places the date at 4 o'clock and has a third subdial for chronograph hours at 6 o'clock. Runwell chronographs come in two sizes, with diameters of 41 mm and 47 mm. There are more than 10 color options for the dial. Steel bracelets and leather or rubber straps are available, as well as a NATO-strap design. Cases come in stainless steel or stainless steel with PVD treatment. Runwell chronographs are priced from \$750 to \$975.



Luminox

A COMPANY that made its name on watches designed for Navy SEALs, Luminox has now turned to developing watches for commercial space flight. The Space Expedition Corp. (SXC) partnered with Luminox to develop the new SXC Steel GMT 5120, a quartz GMT watch in stainless steel. The watch's GMT hand is mounted at the center of the dial; the bezel features 24-hour gradations to correspond to this second-time-zone hand. A date window is at 3 o'clock. All the watch's hands have tritium gas tubes that glow in the dark. The watch comes in black with red or blue accents on the dial and strap. Several more versions are available in lightweight carbon-reinforced polycarbonate. Price: \$795.

Maurice Lacroix



SILICON TAKES center stage in Maurice Lacroix's Masterpiece Gravity watch: the watch's escape wheel, escape wheel pinion, pallet lever, pallet lever staff and balance staff are all made of it. Some of these components are visible in the bottom left section of the dial. Silicon's advantages are that it is three times lighter than steel, so less energy is required to move it, and it requires no lubrication. It is, however, brittle; the balance oscillates at the slow pace of 18,000 vph so there will be less stress on the silicon components.

The case is made of steel and is 43 mm in diameter; there is also a PVD-coated steel model. The crystal is made of sapphire and domed so that it magnifies the visible components, making them appear to sit high within the case. The hour-and-minutes dial is also domed and is surrounded by a clous de Paris pattern. Price: \$13,900.

88 Rue du Rhone

IN HONOR of this year's World Cup in Brazil, 88 Rue du Rhone brought out a watch called the Rio. This chronograph has a 45-mm stainless-steel case with a five-link bracelet. It is powered by a Ronda quartz caliber. On the royal blue dial, displays are accented with the colors of Brazil's flag. The 30-minute counter at 9 o'clock and the 10-hour counter at 3 o'clock both have green hands and yellow and green markers. Overlapping with the running-seconds display at 6 o'clock is a two-digit big date display. The central chronograph seconds hand is yellow and has the brand's signature eight-shaped counterweight. A tachymeter scale runs around the edge of the dial. The hour and minutes hands have a luminous coating. The Rio is water resistant to 50 meters. One hundred pieces are available in the U.S. market. Price: \$950.



Chanel

THIS YEAR CHANEL added to the J12 Chromatic line a women's watch in a new material: the brand's patented "beige gold," an alloy of rose gold formulated so that it doesn't tarnish as much as standard rose-gold alloys. Beige gold is combined with titanium ceramic on the 38-mm case. The J12 Chromatic Beige Gold is powered by an automatic movement with a 42-hour power reserve. The watch has a dark gray dial with a guilloché pattern under its beige-gold hour indexes, and a brushed pattern at the center. Luminous material is applied to the hour, minutes and seconds hands. There is a date window between 4 and 5 o'clock. The rotating bezel, along with the screw-down crown, is also made of beige gold. The caseback and triple-folding clasp are in steel. The J12 Chromatic Beige Gold is water resistant to 200 meters. Price: \$10,000.

Movado

A NEW QUARTZ chronograph with a mesh bracelet has been added to Movado's Circa collection, which debuted in 2012. Circa recalls vintage Movado design from the 1940s, with clear Arabic numerals at 12 o'clock, silver-colored dauphine hands for the hour and minutes, and angular, cone-shaped hour markers. The chronograph has a matte black dial with a tachymeter scale on its perimeter. Subdials show 30 elapsed minutes and 1/10s of chronograph seconds; the running-seconds display is at 2 o'clock. A date window sits between 4 and 5 o'clock. The 42-mm case is in stainless steel with a black PVD treatment. The black bracelet is made of polished, PVD-treated stainless steel. It has a push-button deployant clasp. The Circa chrono is water resistant to 30 meters and has a Swiss movement. Price: \$1,495.





Zannetti

RICCARDO Zannetti's specialty is elaborately engraved and enameled dials, and his large watches provide an excellent canvas for his craftsmanship. This year the Zannetti brand added to its Professional Diver collection with new marine-themed designs. Among them is the Skeleton Piranha, which has a dial made of legal mam-

moth ivory, with a hand-engraved image of a piranha in multicolored champlevé enamel. The watch has a 51.3-mm steel case that is 16 mm thick. Its unidirectional rotating bezel is also made of steel and has a black aluminum ring. The Skeleton Piranha has a nonreflective sapphire crystal and Super-LumiNova on its three hands. Inside is an ETA 2824 automatic movement. The watch comes on a black rubber and leather strap. It is water resistant to 550 meters. Price: \$5,680.

Linde Werdelin

LINDE WERDELIN'S SpidoLite was designed as a sports watch (especially for skiing) that was lightweight but hardy. This year the brand has taken the idea further: the SpidoSpeed Green is more extensively skeletonized, in both case and movement, than previous watches in the collection. It has a forged-carbon outer

case, measuring 44 mm by 46 mm. It is 15 mm thick. Its inner case, crown and chronograph pushers are made of DLC-coated titanium. The LW06 chronograph movement is skeletonized, with rose-gold-treated components and blued screws. An "LW" pattern is visible on the rotor, and the exhibition caseback is treated with DLC and has a satin finish. The strap is made of textured calfskin and has a titanium buckle. Like all Linde Werdelin watches, it can be attached to the brand's ski instrument or dive computer (which are sold separately). The watch comes in a numbered edition of 99 pieces and costs \$25,200.



Alexander Shorokhoff

THE MOST EYE-CATCHING feature of the Glocker from Alexander Shorokhoff is the eight sectors on the dial, each in a different shade of mother-of-pearl. Beginning with the darkest hue just before 6 o'clock and gradually shifting to brighter colors until after 9 o'clock, these iridescent sectors are intended to represent the way the sky lightens progressively in the



morning. The Glocker has a modified Swiss AS.1475 caliber by A. Schild. This hand-wound movement runs in 18 jewels at a frequency of 18,000 vph. It has a power reserve of 40 hours. The case is made of stainless steel and is 43.5 mm in diameter. Its sapphire crystal is nonreflective. There are two crowns on the right side of the case: one to set the time, and one for the black and white alarm hand. The Glocker is water resistant to 50 meters and has a calf-leather strap. Price: \$2,850.

| Bulova



THIS NEW AUTOMATIC chronograph from Bulova is part of the company's Swiss-made Accu-Swiss line. It belongs to the Murren collection, which features styles inspired by mid-20th-century design. Murren watches have what Bulova calls "marquis" bracelets and domed dials. The model shown here, made of steel and fitted with a sapphire crystal, is 41 mm in diameter and 15 mm thick. It's powered by a Sellita SW500 and is water resistant to 30 meters. The bracelet has a two-button deployant clasp. Price: \$2,450.



| Carl F. Bucherer

FOCUSING ON WOMEN'S watches this year, Carl F. Bucherer presented a highly jeweled piece for its Pathos collection, the Pathos Diva Joaillerie. Its white-gold case has 370 diamonds on it, while the white-gold bracelet has 404 diamonds. All told, they come to a total carat weight of 12. The dial combines white gold with

mother-of-pearl and has sloping, stylized, white-gold Roman numerals at 3 and 9 o'clock. The dial has 96 additional diamonds. The watch is 34 mm in diameter and 9.45 mm thick. The Diva Joaillerie has a CFB 1851 quartz movement. It is water resistant to 30 meters. Price: \$192,000.

| Badollet

THE BAMBOO WATCHES from Badollet get their name from their openworked dials, which are inspired by the airiness of bamboo scaffolding. The new Crystalball Bamboo has a 44-mm case. The movement, Caliber BAD5600, is manually wound and runs in 19 jewels at a frequency of 21,600 vph. It has a 120-hour power reserve. The watch has a rose-gold case, crown and bezel. The middle part of the case is polished black ceramic; the dial is made of onyx. The front and back sapphire crystals are nonreflective. At 6 o'clock is the flying tourbillon, above which you can see the grid-like skeletonized structure of the

movement. The watch comes on an alligator strap with a gold folding clasp. It costs \$280,000.





| Dior

THIS YEAR, Dior adds a chronograph to its Chiffre Rouge collection. The Chiffre Rouge A02 is a COSC-certified automatic chronograph in an angular case of brushed stainless steel. The case is distinguished by its uneven lugs, guilloché-engraved crown and the red reset pusher at 4 o'clock. The watch's dial has a black galvanic treatment with luminous markings on the hour and minutes hands. Three subdials provide the running seconds, chronograph hours and chronograph minutes. A red-lettered date aperture is found between 4 and 5 o'clock. The A02's movement is an ETA 2894, which has a frequency of 28,800 vph and a 42-hour power reserve. Underneath the black-tinted sapphire caseback, a rotor is visible with a "Dior Homme" engraving. The watch comes on a black alligator strap and is water resistant to 50 meters. Price: \$6,550.

| Schaumburg

THE GERMAN WATCH company Schaumburg has added this new model to its Aquamatic collection of divers' watches. It's called the Aquamatic 4 Carbon A-Grade, and it has a carbon-fiber dial and Super-LumiNova on the hour indexes and the three hands. The case is made of stainless steel and is 45 mm in diameter and 14.8 mm thick. The engraved bezel has a luminous marker at 12 o'clock, composed of a mixture of Super-LumiNova and ceramic. At 3 o'clock there is a date display. The watch has an SW 20A movement, based on a Sellita automatic. The Aquamatic 4 is water resistant to 500 meters. Price: \$1,900, or \$2,050 for a version with PVD treatment.



| Deep Blue

DIVE-WATCH SPECIALIST Deep Blue has brought out a new watch with a highly illuminated dial. The Daynight Recon T-100 gets its name from the many tubes of tritium gas that adorn the dial. There are 61 tubes that mark the minutes and hours in yellow, green, and orange. The hour, min-

utes and seconds hands also have tubes. Additionally, the bezel has a luminous tritium marker at 12 o'clock. The Daynight Recon T-100 has a stainless-steel case with a 45-mm diameter; it is 51 mm lug to lug and 16.5 mm thick. The unidirectional rotating bezel, which has a ceramic inlay, has Super-LumiNova on its markers. The watch has a nonreflective sapphire crystal and an exhibition caseback. A date window is at 6 o'clock. Inside is an automatic ETA 2824-2 movement. The Daynight Recon T-100 is water resistant to 500 meters. It comes on a steel bracelet with a divers' safety clasp. Price: \$1,199.



| Perrelet

THE TURBINE PILOT is a new collection for Perrelet, combining the brand's characteristic dial-side rotating turbine with the large and legible features of an instrument watch. The Turbine Pilot has a 48-mm stainless-steel case. Its outer bezel works in conjunction with an inner rotating bezel to serve as a circular slide rule for in-flight calculations. The crown at 3 o'clock turns the inner bezel in both directions. The watch has an automatic P-331 movement. The time is set via an integrated crown at 9 o'clock. Hands and hour markers have luminous coating. The hour markers are on a sapphire crystal above the black titanium turbine blades, giving a layered effect. The Turbine Pilot is water resistant to 50 meters and has nonreflective sapphire crystals on both sides. It comes on a black rubber strap or a calfskin strap with gray stitching. The price of the model shown here is \$6,550; a version with a black PVD coating is \$7,200.



| Eberhard

THIS YEAR EBERHARD added new designs to its Chrono 4 collection. The Chrono 4's dial lines up a great deal of information in its four sub-dials. From left to right, it has a 30-minute chronograph counter, a 12-hour chronograph counter, a 24-hour display and a running seconds sub-dial. A date aperture is at 12 o'clock. Around the edge of the dial is a tachymeter scale. On the new version with steel case and black dial, the skeletonized hands have luminous coating. The rims of the subdials are silver in color and snailed. The 24-hour display, like the central chronograph seconds hand, is red. The Chrono 4 has a modified ETA 2894-2 automatic movement, and it runs in 53 jewels. The caseback is fixed with eight screws; the watch is water resistant to 50 meters. On a rubber strap as pictured here, it costs \$6,500.



Tissot

TISSOT'S LE LOCLE collection is named for the town in the Swiss Jura where the brand is headquartered. The latest in the line, the Tissot Le Locle Small Second, contains Tissot's all-new automatic Caliber 2825, which allows the placement of subdials anywhere on the dial. Both the small seconds subdial and the date are located in unconventional spots, at the 5 o'clock and 9 o'clock positions, respectively. The case is steel and has a see-through caseback. The watch comes on a leather strap (\$825) or a steel bracelet (\$875). A two-tone version on a bracelet (\$995) and rose-gold PVD model on a strap (\$950) are also available.



Jaquet Droz

JAQUET DROZ HAS added new models to its Grande Seconde SW line, which rethinks the distinctive overlapping-dials design of the Grande Seconde for a sportier look. The new Grande Seconde SW Steel comes in two diameter sizes: 41 mm and 45 mm. The dial has vertical Geneva waves interrupted by a cosmetic crosspiece. As with all the Grande Seconde watches, the dial for the hours and minutes, with its Roman numeral indexes, is smaller than the seconds dial. The bezel is ridged around its outer edge. The Grande Seconde SW Steel is available in light gray, dark gray or blue. Each has an alligator-leather strap to match the dial. Through its exhibition caseback, you can see the 2663A-S automatic movement, which has two barrels for a power reserve of 68 hours. The watch costs \$14,700.

JeanRichard

JEANRICHARD HAS added this watch to its Terrascope collection. The case is made from polished and vertically satin-finished stainless steel. Its diameter is 44 mm and its thickness is 12.6 mm. The watch has an engraved screw-down caseback and is water resistant to 100 meters. Inside is an automatic JR60

movement, which runs in 26 jewels and has a 38-hour power reserve. On the stamped white dial, the three rhodium-coated hands have luminous material. The suspended hour markers also have luminous coating. A date window is at 3 o'clock. Price: \$3,050.





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