

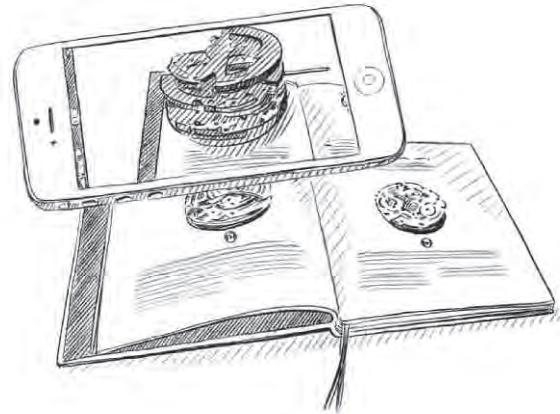
CRAFTSMANSHIP MADE
IN SCHAFFHAUSEN

COLLECTION 2014/2015

IWC AUGMENTED EXPERIENCE



Download the IWC EXPERIENCE APP
onto your smartphone (iOS)



Open the IWC EXPERIENCE APP and point your
camera at this symbol. The application will begin
immediately after you scan the symbol



With this year's Annual Edition, IWC Schaffhausen presents its first-ever augmented reality catalogue. Now you can watch exclusive clips about the watch lines and access complex 3-D animations that open up the mysterious world of IWC's in-house mechanical movements and complications.

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THE IWC AQUATIMER COLLECTION 2014

AT HOME IN TWO DOMAINS

————— The 2014 Aquatimer collection is a prime example of Darwin's theory of evolution: successful species never stop developing. The most conspicuous change in this latest generation is an innovative external/internal rotating bezel. It combines the advantages of the internal rotating bezel with the easier operation of an external bezel and, thanks to the IWC SafeDive system, contributes to the diver's safety. With a digital perpetual calendar, mechanical depth gauge and sensational pressure-resistance to 200 bar, the watch family has also advanced to the highest stages of development in haute horlogerie. Other models are now equipped with IWC-manufactured movements. For the first time ever, IWC has chosen to produce a case in alluring bronze. And with the bracelet, too, we are witnesses to the creation of a new species: the patented IWC bracelet quick-change system facilitates the change between rubber strap and stainless-steel bracelet, and holds the case more securely than ever. The new diver's watches from IWC are perfect companions for the exacting expeditions undertaken by modern explorers, both above and below the surface.

It is no coincidence that IWC presents the new Aquatimer collection against the magnificent backdrop of the Galapagos Islands. It is here that Charles Darwin discovered the foundations of his theory of evolution, Jacques Cousteau became the first man to film the marine iguana, and the scientists of the Charles Darwin Foundation have been fighting for 50 years to preserve the sensitive ecosystem. And it is to them, the committed natural scientists and researchers, that IWC Schaffhausen dedicates three exclusive special editions: part of the proceeds from sales will flow directly to the foundations in question to help finance their project work.

So, it is now time to take the plunge into the fascinating world of the IWC brand. We wish you many hours of exciting reading with our Annual Edition.

Yours IWC Schaffhausen

A modern, multi-story office building with a prominent glass facade and a dark horizontal band at the top. The building is situated behind a row of tall, thin trees. In the foreground, a body of water reflects the building and the sky. A metal railing runs along the edge of the water. The sky is overcast and grey.

IWC

THE COMPANY'S FOUNDATION



**AT THE TENDER AGE OF 27,
JONES CROSSED THE
ATLANTIC OCEAN, PLANNING
TO COMBINE THE EXCELLENCE
OF SWITZERLAND'S
CRAFTSMEN WITH MODERN
ENGINEERING FROM ABROAD
AND A GENEROUS HELPING
OF PIONEERING SPIRIT IN
ORDER TO MAKE TOP-QUALITY
WATCHES FOR THE
AMERICAN MARKET**



Watch assembly at IWC around 1900:
since time immemorial, the art of watchmaking
has called for skill and manual dexterity

————— Roaring masses of water plunge over the rocky cliffs that make up the world-famous Rhine Falls. A few kilometres upstream, in Schaffhausen, the Rhine glides at a leisurely pace past the workshop windows of IWC. Here, over 140 years ago, a company began a story that is still being written today.

American engineer and watchmaker Florentine Ariosto Jones learnt the watchmaker's trade from scratch. While still a young man, he was appointed deputy director and production manager of the E. Howard Watch & Clock Company in Boston, which was then a leading American watchmaker. At that time, the American market appeared to have a virtually insatiable hunger for quality watches and its production methods were among the most modern in the world. What it lacked was skilled, qualified local labour and this led to rising wages. By contrast, the conditions prevailing in Switzerland for American watch manufacturers were almost perfect: low wages, a plentiful supply of skilled craftsmen and an enormous production

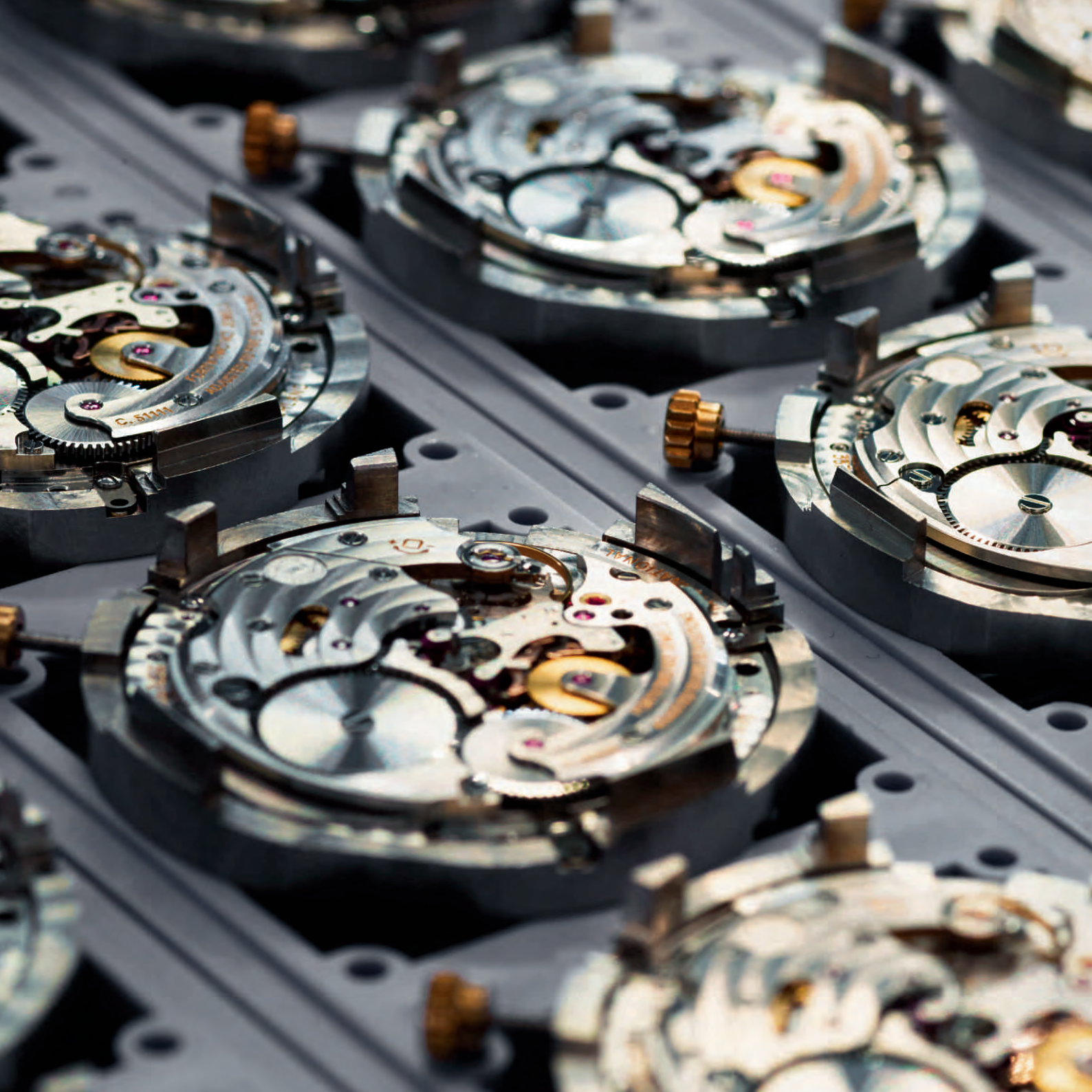
capacity. At the tender age of 27, Jones crossed the Atlantic Ocean, planning to combine the excellence of Switzerland's craftsmen with modern engineering from abroad and a generous helping of pioneering spirit in order to make top-quality watches for the American market. The locals in Geneva and the remote valleys of the Jura in French-speaking Switzerland, however, reacted sceptically to his proposal. Since the 17th century, they had been working from their homes or in tiny workshops. Jones, on the other hand, was dreaming of building a modern factory with centralized production.

At this time, Schaffhausen, at the north-eastern tip of the country, could reflect on a long watchmaking tradition. The first mechanical clock ever mentioned in the records was made way back in 1409 at the Rheinau monastery, 10 kilometres further down the Rhine. It had been produced for the Church of St. John in Schaffhausen. There are also official records of a clockmakers' guild in the town from 1583, and it was home to the famed Habrecht family of clockmakers, who built one of history's most outstanding astronomical clocks for Strasbourg Cathedral. Nevertheless, it was Jones's plan to manufacture relatively large numbers of high-quality watches internally to precisely the same tolerances which enabled these watches made in Schaffhausen to become famous all over the world.

In Schaffhausen, Jones found all he needed to turn his plans into reality, including a hydro station powered by the Rhine. The energy it harnessed was transmitted directly, via shafts and long cables, to the newly built factory and supplied the power needed to drive the machines. The railway line to Schaffhausen had been completed in 1857, so it was no wonder that the town was enjoying an economic boom. For the man from Boston, it was a case of being in precisely the right place at the right time and, in 1868, F. A. Jones founded his watch company: the International Watch Co. (IWC).



An example of an F. A. Jones calibre, named after IWC's founder, approximately 1875





TECHNOLOGY



The 94800 calibre is powered by two barrels to provide the required energy for the constant-force tourbillon, the moon phase module and the power reserve display of the Ingenieur Constant-Force Tourbillon

—————The development and continuous improvement of movements, functional displays and cases has been part of IWC's philosophy since 1868. IWC-manufactured movements and complications such as the perpetual calendar, constant-force tourbillon and minute repeater are not only historically significant achievements in the art of watchmaking, but also the fruit of the company's in-house design and development efforts. In order to meet its demanding, self-imposed quality standards, IWC has its own fully equipped, dedicated laboratory.

**FROM THE F. A. JONES CALIBRE TO
THE CONSTANT-FORCE TOURBILLON**

The company's excellent reputation was established right from the start with the very first F. A. Jones calibre named after the founder of IWC. Its many outstanding features included a compensating balance, a Breguet spring and an elongated index to facilitate precision adjustment of the watch's rate. Towards the end of the 19th century, IWC used its 64-calibre ladies' pocket watch movement in its first wristwatches. The first movements designed specially for wristwatches – the 75 and 76 calibres – followed in 1915. In 1939, the men's pocket watch 74 calibre was used in the first Portuguese wristwatches, which explains the unusually large size of the watch family to this day. From 1940 onwards, another pocket watch movement determined the dimensions of the most voluminous wristwatch IWC has ever built, the 52 T. S. C., which gives the Big Pilot's Watch its characteristic deck watch qualities. In 1946, the 89 calibre, the first design to come from IWC's Technical Director of the time, Albert Pellaton, made a deep impression with its exceptionally precise rate. This was also the movement found in the legendary Pilot's Watch Mark 11 from 1948 onwards. Pellaton's masterpiece – IWC's first automatic movement featuring the winding system that still bears his name – appeared in 1950. It has been further developed and perfected over the years and features in many of the models in the latest collection. The Da Vinci Reference 3750 was launched in 1985, whose perpetual calendar was mechanically programmed for the next 500 years. To achieve this, the calendar module developed by Kurt Klaus was superimposed on an existing chronograph movement. In

**THE QUEST FOR
TECHNICAL PERFECTION
IS PART OF THE
COMPANY'S PHILOSOPHY**

the early 1990s, the engineers from Schaffhausen provided eloquent proof that they had mastered the full range of fine watchmaking skills to perfection. The first Grande Complication (Reference 3770) wristwatch featuring the automatic 79091-calibre movement was unveiled in 1990. This masterpiece, consisting of 659 mechanical parts, was further improved and resulted in the Il Destriero Scafusia (Reference 1868), which marked the company's 125th anniversary. In 2000, following 6 years' development, the in-house 5000 calibre heralded IWC's return as a manufacturer of top-quality watch movements. The large calibre, with its 7-day movement and automatic Pellaton winding system, was the foundation for the 50000-calibre family, which is used today mainly to power the Portuguese and Pilot's Watch families. In 2005, the Ingenieur Automatic, fitted with the 80110 calibre, marked the entrance of the new and unusually rugged 80000-calibre family. Parallel to this, IWC Schaffhausen was working on its in-house 89360 calibre, which was first used in the Da Vinci Chronograph in 2007. From 2009 onwards, a further developed version, the 89900 calibre, became the driving force behind the first digital display of the day and date in large numerals. The 59000-calibre family, which is found in the Portofino Hand-Wound Eight Days, appeared in 2011. That same year, the new 94000-calibre family, with manual winding and a constant-force tourbillon, marked another highlight in the fine art of watchmaking. The IWC-manufactured 94900 calibre requires the power of two separate barrels to drive a timepiece that is currently one of the world's most complex, the Portuguese Sidérale Scafusia.

IWC CALIBRES: THE GREAT LEGACY OF IWC POCKET WATCHES

Calibre	Height	Diameter basic movement	Frequency ^{a)}	Jewels	Winding ^{b)}	Power reserve	Date	Special features	References
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50000-CALIBRE FAMILY

51011	7.6 mm	37.8 mm	21,600 A/h / 3 Hz	42	S	7 days	X		5001
51111	7.6 mm	37.8 mm	21,600 A/h / 3 Hz	42	S	7 days	X		5009, 5019
51613	9.1 mm	37.8 mm	21,600 A/h / 3 Hz	62	S	7 days	X	Perpetual calendar, classic moon phase	5023
51614	9.1 mm	37.8 mm	21,600 A/h / 3 Hz	62	S	7 days	X	Perpetual calendar, double moon phases	5029, 5032
51900	9.0 mm	37.8 mm	19,800 A/h / 2.75 Hz	44	S	7 days	X	Tourbillon, retrograde date	5044

59000-CALIBRE FAMILY

59210	5.8 mm	37.8 mm	28,800 A/h / 4 Hz	30	H	8 days	X		5101
59215	5.8 mm	37.8 mm	28,800 A/h / 4 Hz	30	H	8 days	X		5102
59230	7.3 mm	37.8 mm	28,800 A/h / 4 Hz	30	H	8 days	X	Large date display	5161

80000-CALIBRE FAMILY

80110	7.3 mm	30 mm	28,800 A/h / 4 Hz	28	S	44 h	X		3225, 3580
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^{a)} A/h = alternances à l'heure = beats per hour ^{b)} S = self-winding, H = hand-wound

Calibre	Height	Diameter basic movement	Frequency ^{a)}	Jewels	Winding ^{b)}	Power reserve	Date	Special features	References
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89000-CALIBRE FAMILY

89361	7.5 mm	30 mm	28,800 A/h / 4 Hz	38	S	68 h	X	Chronograph, flyback function	3785, 3878, 3902, 3904
89365	7.5 mm	30 mm	28,800 A/h / 4 Hz	35	S	68 h	X	Chronograph, flyback function	3795, 3878, 3880
89801	9.9 mm	37 mm	28,800 A/h / 4 Hz	51	S	68 h	X	Chronograph, digital perpetual calendar, flyback function	3791, 3794
89802	9.9 mm	37 mm	28,800 A/h / 4 Hz	51	S	68 h	X	Chronograph, digital perpetual calendar, flyback function	3791, 3792

94000-CALIBRE FAMILY

94800	7.7 mm	37.8 mm	18,000 A/h / 2.5 Hz	43	H	96 h	X	Double moon phases, constant-force tourbillon	5900
94900	11.8 mm	37.8 mm	18,000 A/h / 2.5 Hz	56	H	96 h	X	Astronomical display, constant-force tourbillon	5041

98000-CALIBRE FAMILY

98900	4.7 mm	37.8 mm	28,800 A/h / 4 Hz	21	H	54 h		Tourbillon	5463
98950	8.9 mm	37.8 mm	18,000 A/h / 2.5 Hz	52	H	46 h		Minute repeater	5449

^{a)} A/h = alternances à l'heure = beats per hour ^{b)} S = self-winding, H = hand-wound

THE 50000-CALIBRE FAMILY

The voluminous, IWC-manufactured 51011 calibre is used in the Portuguese Automatic. With a spring-mounted rotor and Pellaton pawl-winding system it is a member of the 50000-calibre family



————— The 50000-calibre family represents a wide range of different movements that have one thing above all in common: their unmistakably large dimensions.

They feature some of the best ideas ever to appear in an automatic movement (among them the legendary Pellaton winding system) together with a balance and Breguet spring for maximum precision. Apart from this, the IWC 50000-calibre family with its 7-day power reserve represents a giant leap forward

in the history of automatic movements: 1,960 complete revolutions of the rotor wind the movement for a full 7 days.

THE 59000-CALIBRE FAMILY

The reverse side of the 59210 calibre. The barrel bridge supports the winding mechanism, barrel and differential, while the display wheel bridge with its "Probus Scafusia" engraving holds the power reserve display



————— The 59000-calibre family, developed for the Portofino Hand-Wound Eight Days, follows the tradition of the 50000-calibre family. It is large, precise and reliable.

The watchmakers from the Schaffhausen-based company spent 2 years working on the 59210 movement. It is the first IWC hand-wound movement to feature an 8-day power reserve. Strictly speaking, it is 9 days, but the extra day in reserve ensures that the movement maintains as constant a driving torque

as possible and continues to run precisely. The movement is stopped mechanically before the reduced torque can cause it to start running inaccurately. This also means that the owner can safely wind his watch once a week. The indexless balance with a frequency of 28,800 beats per hour helps to ensure high-level precision, as does the Breguet spring with its traditional bent overcoil. The movement also features a power reserve display, a date display and a small hacking seconds.

THE 80000-CALIBRE FAMILY

Even under extreme conditions, the precision of IWC timepieces such as the Aquatimer Automatic 2000 is guaranteed by the rugged 80110 calibre. It features an integrated shock-absorption system that protects the rotor bearing



————— The Pellaton winding system is the cornerstone not only of the 50000-calibre family but also of the 80000-calibre family.

One of the most robust movements ever manufactured by IWC was the 80110 calibre, unveiled in 2005. It offers maximum protection against abrasion and other defects, is easily accessed

for servicing and has been continuously improved in terms of reliability and shock absorption.

THE 89000-CALIBRE FAMILY

The IWC-manufactured 89361-calibre movement turns a trailblazing invention into reality: a chronograph display that enables stopped hours and minutes to be read off as easily as the time of day



Designed and manufactured completely by IWC in Schaffhausen, the 89360-calibre chronograph movement and its successor, the 89361, feature a significantly improved self-winding system and set new watchmaking standards. The design, which occupied an IWC development team for a full 4 years, was necessitated by a revolutionary chronograph display that enables the user to read off even relatively long periods of stopped times – 8 hours and 52 minutes, for example – at a glance: a circular totalizer combines the hour and minute hands as if they were a watch-within-a-watch.

The 89365 chronograph movement, which features a stopwatch function with minutes and seconds as well as a flyback function, is found, among other models, in the three new Aquatimer chronographs (Reference 3795). After further development, the IWC-manufactured movement was known as the 89800 calibre and used for the big digital date and month displays in References 3761, 3791 and 3794. In 2013, the new Ingenieur Perpetual Calendar Digital Date-Month came equipped with a further development on the theme, the 89802 calibre.

THE 94000-CALIBRE FAMILY

*The inspiration for the movement side came from a sports car's engine block.
Apertures provide a view of the intermeshing wheels inside*



————— The 94000-calibre hand-wound movement with constant-force tourbillon bears impressive testimony to the inventive spirit of IWC's engineers. It is powered by two barrels, which provide the higher torque required to drive the constant-force tourbillon.

In the 94900 version it also provides the enormous amount of power needed to drive the astronomical module in the Portuguese Sidérale Scafusia, the most exclusive and complicated

mechanical watch ever made by IWC. This extravagant time-piece features displays for sidereal and solar time, the times of sunrise and sunset, and a perpetual calendar, as well as showing the section of the sky currently visible in the real sky.

Apart from the movement in the new Ingenieur Constant-Force Tourbillon, the 94800 calibre also drives the tourbillon, the moon phase display and the power reserve display.

THE 98000-CALIBRE FAMILY

The IWC-manufactured 98295 calibre with design cues from the first F. A. Jones movements: these include an elongated index (the “F. A. Jones arrow”), which facilitates quick, easy adjustment of the spring length, and a three-quarter bridge decorated with Geneva stripes



————— The 98 calibre, which was manufactured from the mid-1930s for the hunter pocket watch, has been regularly improved by IWC for over 80 years. Since it is so ideally suited for large hand-wound wristwatches, it is no coincidence that it is very closely associated with the story of the Portuguese wristwatches. One of the highlights in the calibre’s history was the anniversary Portuguese wristwatch unveiled in 1993 with the 9828 calibre, which among other things featured a balance with shock-resistance.

With an elongated index and a modern shock-absorbing system, the 98290 calibre, first used in the Portuguese F. A. Jones in 2005, combines tradition and technological progress. Movements from the 98000-calibre family are also found in the Portuguese Minute Repeater and the Portuguese Tourbillon Hand-Wound.

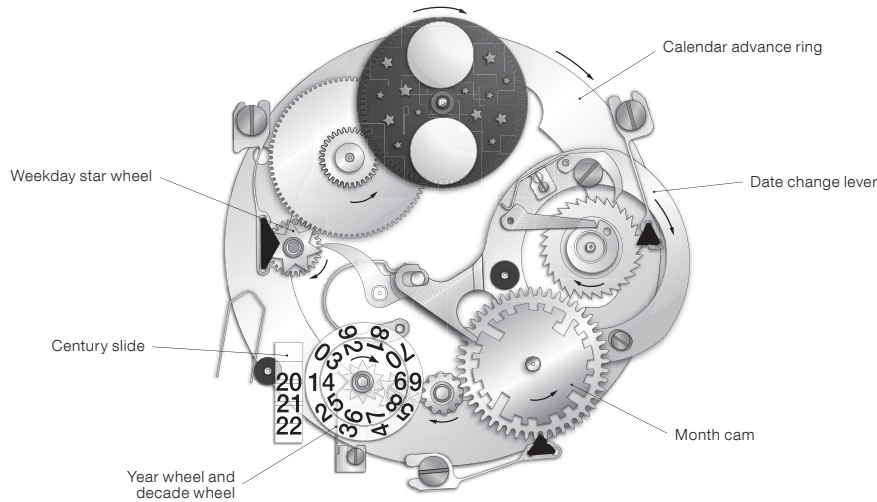


IWC COMPLICATIONS: MASTERPIECES OF HAUTE HORLOGERIE

————— IWC's entry into the world of independent complications took place in 1977: its first truly complicated timepiece was the open-face pocket watch with a calendar and moon phase display. Many other complications from IWC followed directly. In 1985, the company presented the invention of the century: the perpetual calendar from Kurt Klaus. Five years later, the engineers in Schaffhausen went one better with the Grande Complication. With 21 functions and displays, it brought together almost every complication worthy of the name. In 1992, IWC launched its first split-seconds mechanism and, just a year later, the greatest of all complications: the minute tourbillon. On the occasion of the 125th corporate anniversary, it graced one of watchmaking's superlatives: Il Destriero Scafusia, a timepiece limited to just 125 watches. In 1998, Kurt Klaus developed a particularly user-friendly world time module for the first UTC Pilot's Watch, which was further improved for the Pilot's Watch Worldtimer and again for the Ingenieur Dual Time in the latest collection. After ongoing improvement, the mechanical depth gauge first presented in 1999 is now to be found in the Aquatimer Deep Three from the new Aquatimer collection. In 2009, IWC revived the tradition of the digital display first used in 1884 and unveiled date and month displays with large digits. Finally, the company reached the zenith of haute horlogerie in 2011 with the Portuguese Sidérale Scafusia, which features, among other things, a patented constant-force tourbillon, sidereal time display, sunrise and sunset time displays together with a rotating sky disc with around 1,000 stars on the reverse side of the watch.

PERPETUAL CALENDAR

The IWC perpetual calendar also takes the leap years into account: the century slide supplied with the watch will go on showing the year correctly until 31 December 2499



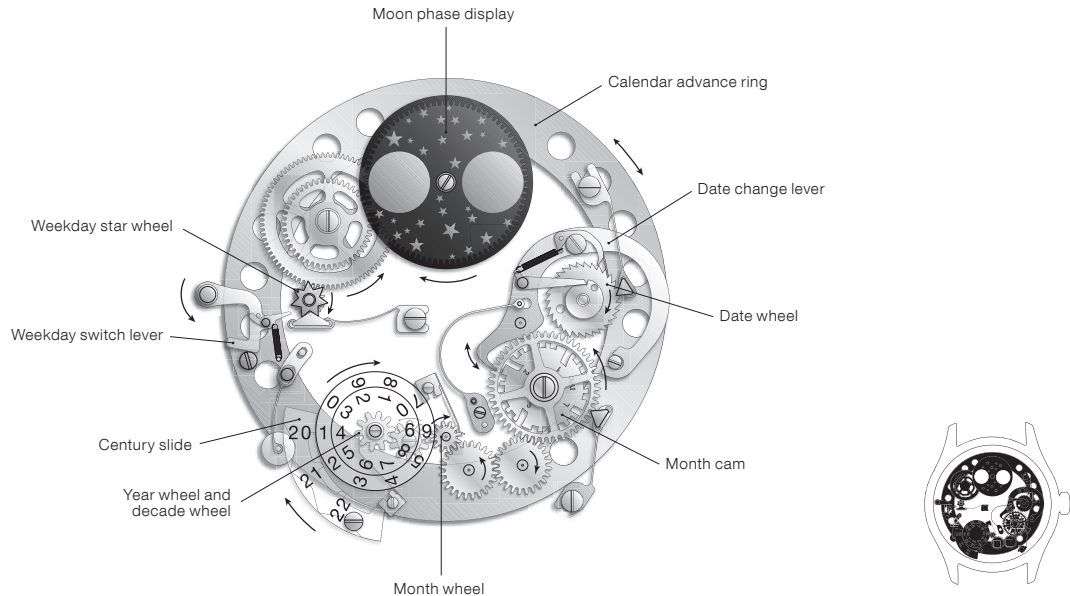
————— The design of the perpetual calendar was a feat of watchmaking genius that finally paved the way for IWC's entry into the world of haute horlogerie. A mechanical masterpiece, it takes into account all the complexities of the leap years; in other words, it recognizes all the years that can be divided, without remainder, by four (e.g. 2012), as well as the centuries that can only be divided, likewise without remainder, by 400 (e.g. 2400). These leap years all have a 29th day in February. Years at the turn of the century that leave a remainder when divided by 400 – the next ones are 2100, 2200 and 2300 – are not leap years. In cases like these, calendars

with an analogue display will need to be advanced by one day on 1 March by a watchmaker. Calendars with a digital display can be adjusted by the owner.

The perpetual calendar's century slide with an analogue display turns each new century into a major event. The current century slide bears the numbers 20, 21 and 22 and will thus come to the end of its service life on 31 December 2299; but even now, IWC supplies the century slide bearing the figures 22, 23 and 24 for the years 2200 to 2499.

ANALOGUE DATE AND MOON PHASE DISPLAYS

The calendar module of the Portuguese Perpetual Calendar. The century slide moves through an angle of 26 degrees – or by 1.2 millimetres – after 25.2 billion beats



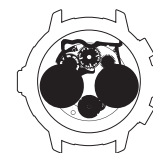
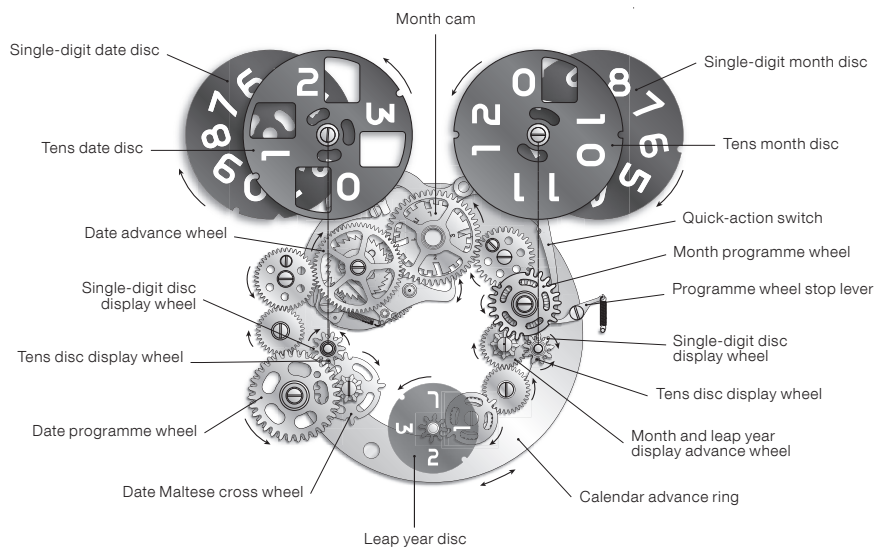
————— Analogue date displays with hands have a long tradition in IWC watches featuring perpetual calendars. In the case of the Portuguese Perpetual Calendar, for instance, the date, day and month are to be found on three subdials and, thanks to the clear layout, are extremely easy to read.

The classic moon phase display with discs is usually found at “12 o’clock”. The Ingenieur Constant-Force Tourbillon is one exception and displays the double moon at approximately “1 o’clock”. The moon phase display used in the Portuguese Grande Complication is astonishingly accurate and deviates

by just 0.002 per cent, or 1 day, in 122 years. The Portuguese Perpetual Calendar is even more precise. Larger moon phase wheels with a higher number of teeth reduce the deviation so drastically that a future inheritor of the watch would theoretically need to take it to a watchmaker to have the moon phase display adjusted by only 1 day in 577.5 years.

DIGITAL DATE DISPLAY

The new Aquatimer Perpetual Calendar Digital Date-Month shows the date and month in large numerals

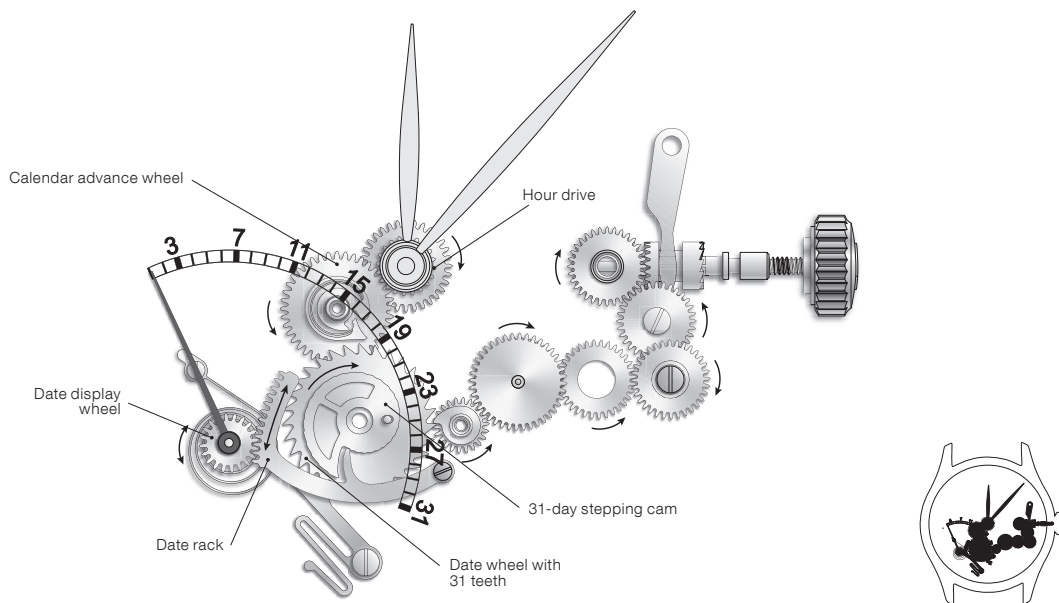


IWC produced the first “digital” watches in its history as early as 1884. These timepieces, known as Pallweber watches, displayed the hours and minutes using numerals, while the seconds were shown in analogue form with a hand. The state-of-the-art Perpetual Calendar Digital Date-Month calendar movement, which is now likewise found in the new Aquatimer family, shows not only the date but also the month in large numerals. The energy required to advance the month display discs is built up continuously throughout

the month by a quick-action switch. A spring-loaded lever on the quick-action switch is lifted a tiny bit further each day by a cam. At the end of the month, the tension in the spring has reached its maximum, and it is time for all that energy to be released; the quick-action switch jumps instantaneously to its starting position and advances both of the month display discs individually, or together, by one position, depending on the month. On 31 December, the leap year disc is also advanced at the same time.

RETROGRADE DISPLAY

The spring of the date display wheel is tightened via the snail-shaped cam and its rack. After the 31 days have elapsed or – as shown here – on activation of the rapid-advance mechanism via the crown, the feeler on the rack jumps from the outer to the inner surface of the cam. The spring is no longer under tension and allows the date hand to jump back to “one”

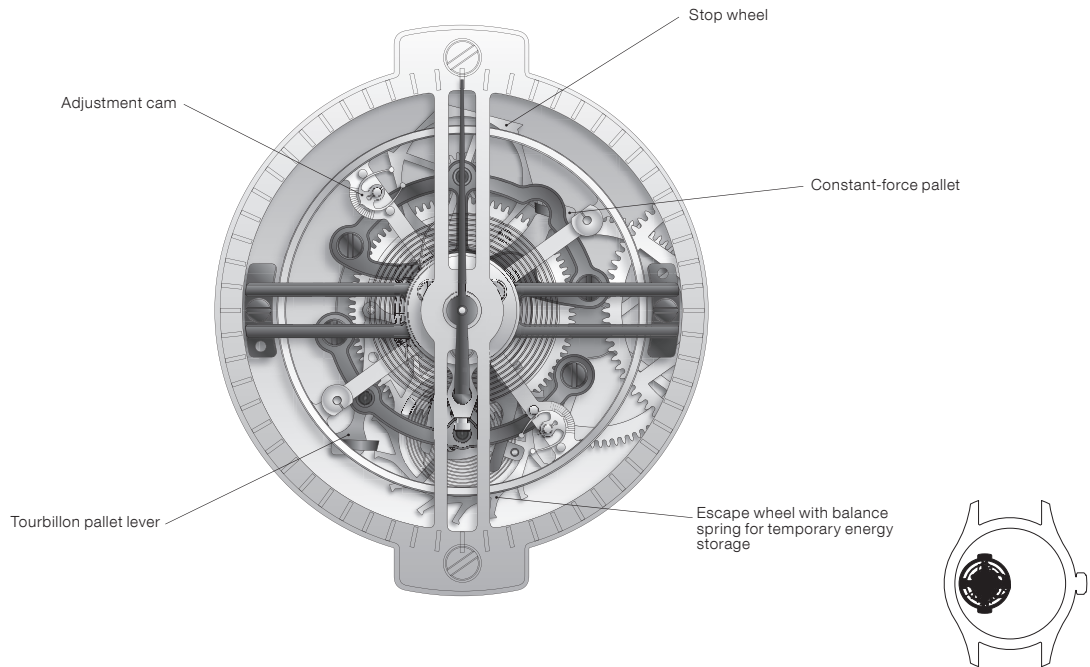


In the retrograde date display, the hand jumps back automatically to “one” after the 31st of the previous month, which explains the complication’s name. In months with fewer than 31 days or when the watch has not been used for a while, the date display can be advanced rapidly using the crown and jumps back to the first of the month. This does not involve resetting the time. This unusual type of display not only gives the wearer a very special feel for time; unlike a classic date disc, it has the additional advantage that the flying

tourbillon in the Portuguese Tourbillon Mystère Rétrograde is not concealed by a date disc. Last but not least, the moment at the end of each month when the large hand reverts instantaneously to its starting position is a remarkable event in itself.

CONSTANT-FORCE TOURBILLON

The constant-force tourbillon elegantly combines two complications that serve to improve the watch's accuracy

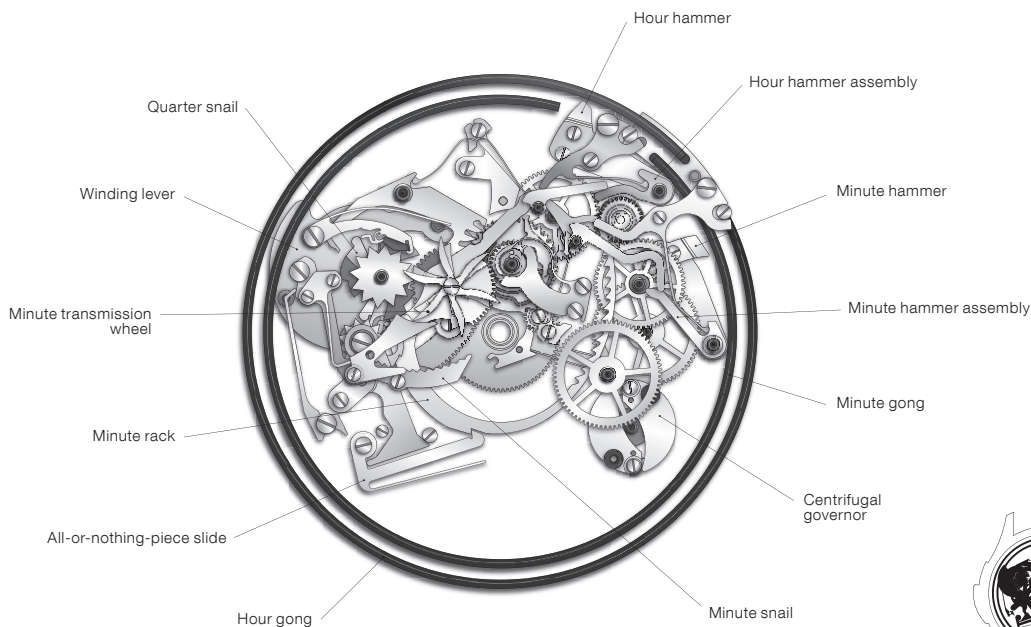


For the Portuguese Sidérale Scafusia and the Ingenieur Constant-Force Tourbillon, IWC has integrated a patented constant-force mechanism into a tourbillon. It ensures that the amplitude of the balance – and thus the watch's accuracy – remain absolutely constant, initially by disconnecting the escapement from the direct flow of energy generated by the gear train. The energy is stored temporarily in an additional balance spring from where it is transferred to the escape

wheel. The balance spring is put under tension once a second and, in the process, the seconds hand in the tourbillon advances in one-second jumps. This ensures an extremely regular and precise rate over a period of at least 48 hours. After approximately 2 days, the movement switches from constant-force mode to normal mode, as can be seen from the second hand, which now starts to advance at intervals of one-fifth of a second.

MINUTE REPEATER

The minute repeater chimes out the time in hours, quarters and minutes whenever required

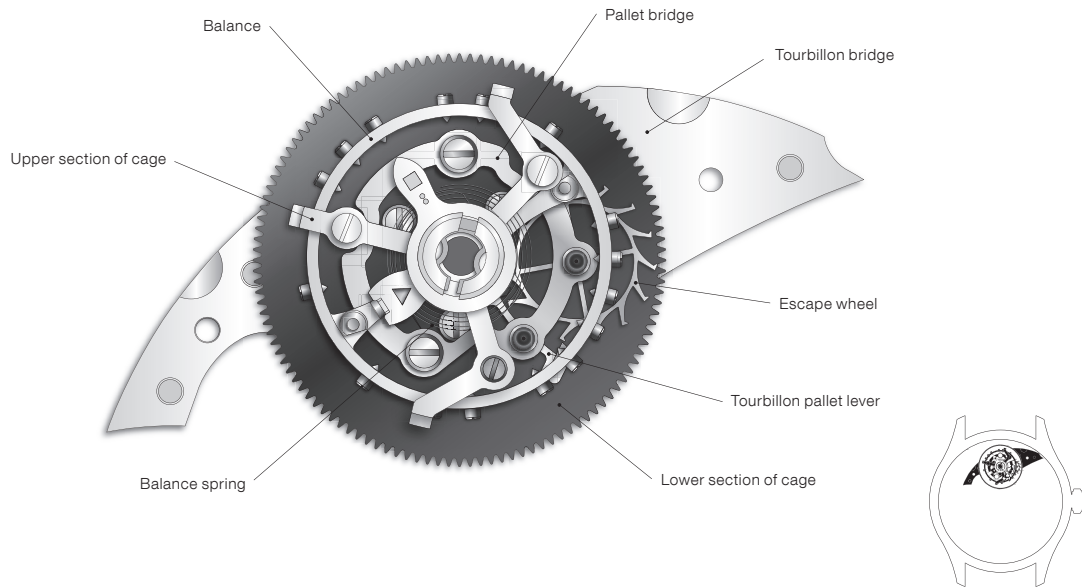


It took 50,000 hours to develop the highly complex minute repeater strike train for the Grande Complication and the Portuguese Minute Repeater. It is operated by an eye-catching repeating slide on the left-hand side of the case and chimes out the time in crystal-clear tones: the hours on the lower-pitched of the two gongs, followed by a double strike on both gongs for the quarters and finally a single strike on the higher-pitched gong for the minutes. Every gong is in-

dividually handmade and carefully tuned for pitch and tonal purity. The all-or-nothing-piece slide, as it is known, ensures that the mechanism will never chime out an incomplete – and thus incorrect – series of acoustic tones even if the repeating slide is released too early.

TOURBILLON

The tourbillon mechanism, a filigree construction consisting of 82 parts

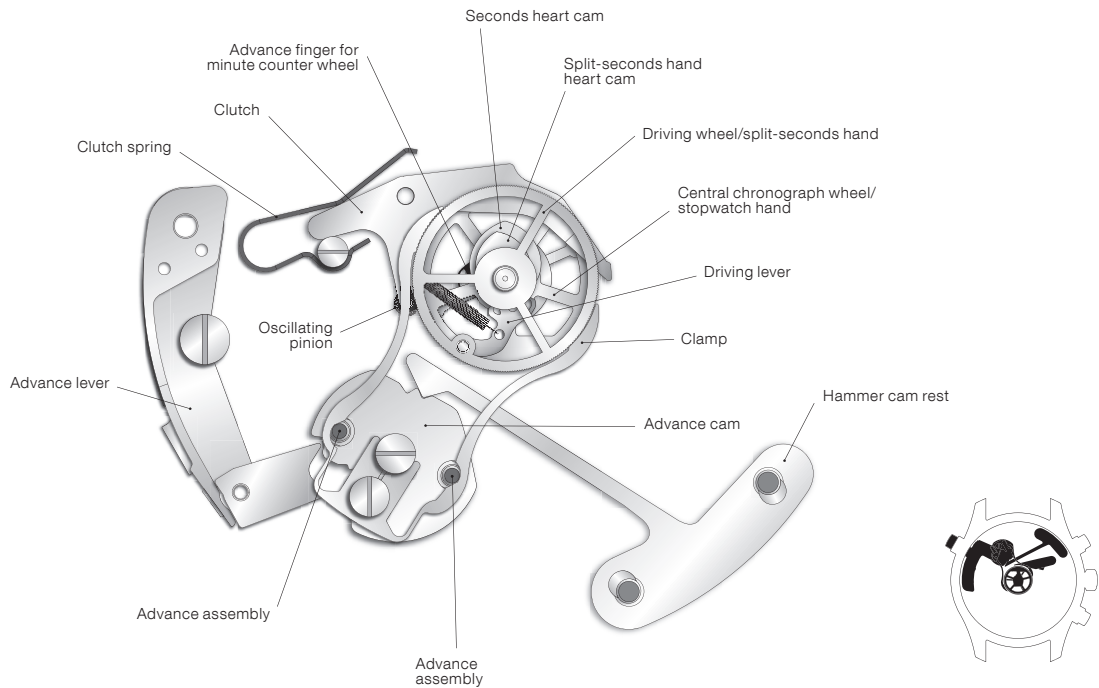


_____ The tourbillon – or, as it literally translates, the “whirlwind” – has long been considered the ultimate achievement in mechanical watchmaking. Originally, this most exclusive of all watch complications was intended to offset the gravitational error inevitable in an oscillating system with a balance. The solution: to put the balance, pallet and escape wheel in a tiny cage that would then rotate around its own axis once

every minute. The construction of this mechanism represents an enormous challenge, and results in a filigree work of art consisting of 82 parts. In the Portuguese Tourbillon Mystère Rétrograde, the tourbillon at “12 o’clock” appears to come alive and is the focal point of the entire dial.

RATTRAPANTE

In a split-seconds mechanism, the split-seconds hand can be stopped at any time and then synchronized with the chronograph hand by pushing the button again



—————The word “rattrapante” describes the split-seconds hand on a chronograph, which catches up with the primary chronograph hand. Unlike a standard chronograph, the split-seconds chronograph has two hands that start simultaneously. The rattrapante, or split-seconds hand, which is superimposed on the stopwatch hand, can be stopped independently using a third push-button at “10 o’clock”, while the

stopwatch hand continues to run. This permits the user to record two separate times, precisely to the second, within any given minute. If the third button is pushed again, the split-seconds hand instantaneously catches up and is synchronized with the stopwatch hand. It is then possible to record a new intermediate time.

WORLDTIMER

The Worldtimer complication in the Pilot's Watch Worldtimer provides a rapid overview of the various time zones. The rotating 24-hour ring is set once to the current time UTC using the crown and then continues to run independently of the local time



On the 24-hour ring, all 24 time zones can be seen at a glance. To make it easier to distinguish between night and day, the ring is divided into black and white sections. The red UTC lettering below London shows Universal Time Coordinated, while the international DATE LINE is depicted opposite. Each of the 23 place names on the external city ring represents a time zone. Standard time can be seen centred below the city name. Some of the cities have an additional index with a white dot to indicate that, apart from standard time, they also have daylight saving time. During the daylight saving time period, this can be simply read off below the dot connected to the index. In the illustration, we see 1 a.m. standard time in London, 5 a.m. standard time in Dubai, and 11 a.m.

daylight saving time in Sydney. The dial and hands (not illustrated here) show current local time. If the wearer passes through one or more time zones, the time can be adjusted forwards or backwards in one-hour steps via the crown to show the new local time, even when crossing the International Date Line. The date simply moves in sync with the jumping hour hand. If the local time on the dial is altered, the movement continues to run during the changeover.

In the Ingenieur collection, the new Ingenieur Dual Time indicates a second local time of the wearer's choice on the outer 24-hour ring. Its mechanism is as user-friendly as the Worldtimer's.

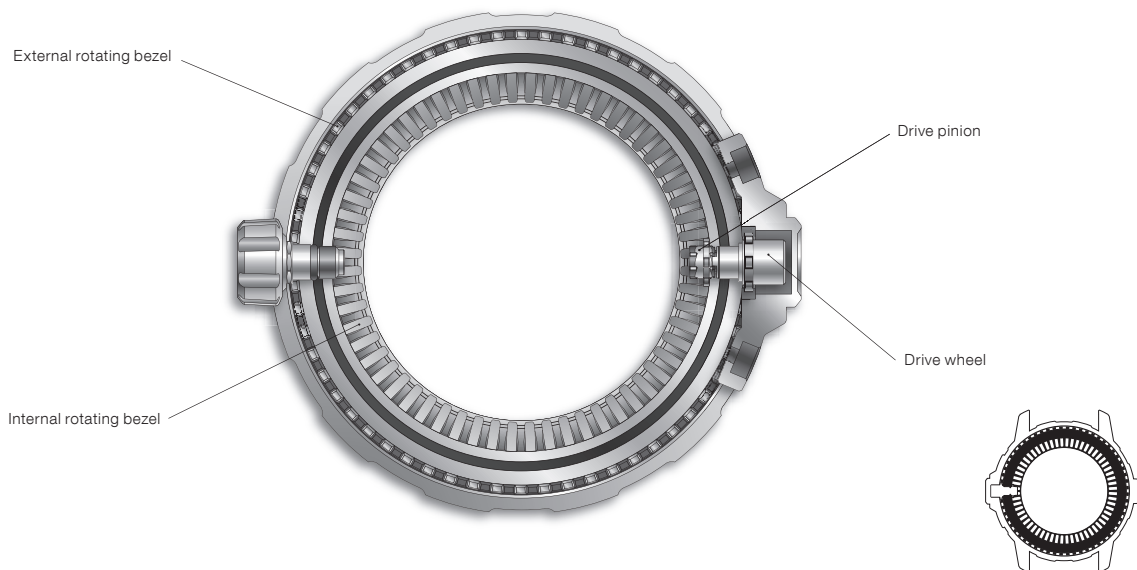
EXTERNAL/INTERNAL ROTATING BEZEL

(1) The rotational movement of the external rotating bezel is transmitted to the drive wheel through a crown wheel train. This conducts the rotational movement via an arbor to the inside of the case.

(2) If the external rotating bezel is rotated in an anticlockwise direction, the drive disc engages with the drive pinion.

The pinion rotates the internal rotating bezel in an anticlockwise direction via a second crown wheel train in a fashion similar to the external rotating bezel. (3) When the external rotating bezel is turned in a clockwise direction, the click-stop holds the drive pinion in position, and, at the same time, the drive disc glides over the saw-shaped toothing of the drive pinion. The internal rotating bezel remains positioned precisely to the minute.

(4) Two sealing elements in the sliding clutch system prevent the penetration of water and sand

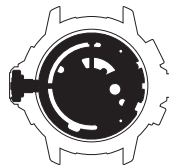
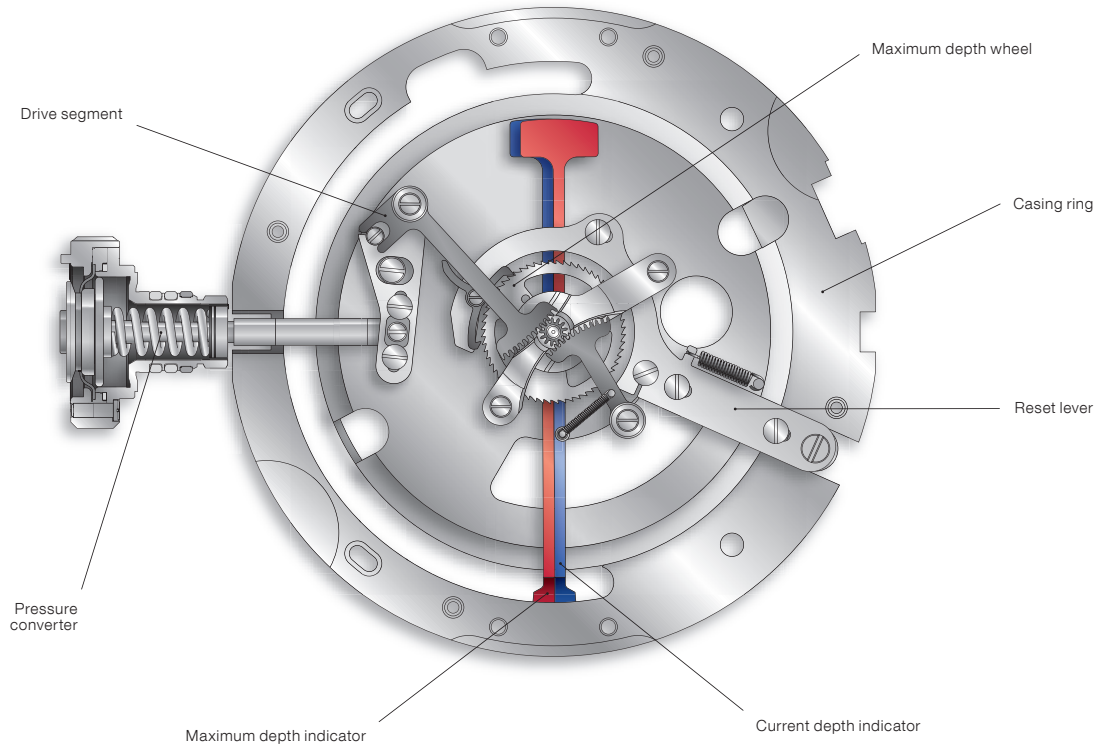


————— The new SafeDive system combines the advantages of an internal rotating bezel, which protects the mechanism against salt water, dirt, etc., with the ease of use of an external rotating bezel, which engages precisely in one-minute steps. This is made possible by a sliding clutch system that transmits the bezel's rotational movement by way of an arbor

to the inside of the case and the internal bezel. For safety reasons, the internal bezel only moves anticlockwise. If it is accidentally moved during a dive, the indicated start time is always earlier than the actual time and it is thus not possible to exceed the calculated dive end time.

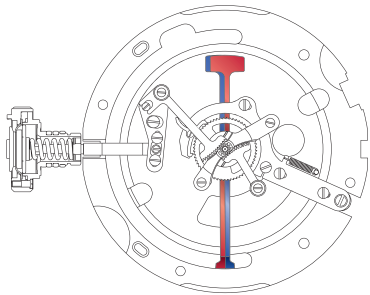
DEPTH GAUGE

The illustration shows the depth gauge mechanism as seen from the rear

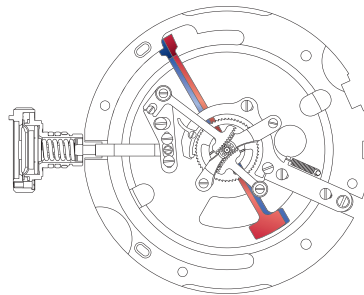


DEPTH GAUGE

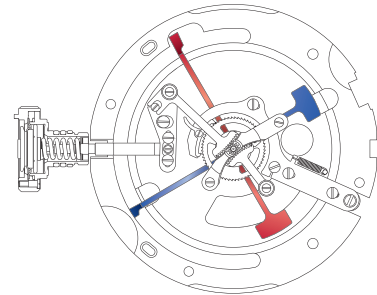
With the further-developed depth gauge mechanism, the new Aquatimer Deep Three is able to display the current and the maximum depth during a dive (down to 50 metres)



During the descent, both hands move to the targeted dive depth



The red indicator shows the maximum dive depth (up to 50 metres) and remains in place



During the ascent, the movements of the blue depth indicator are dictated by current dive depth

The pressure metering system of the further-developed depth gauge mechanism is housed in a pressure converter on the left-hand side of the case. Through minuscule holes in the cover of the pressure converter, water pressure acts on a spring membrane and pushes a shaft towards the interior of the case. This movement is transmitted through a system of levers and moves the gauge's two indicators at the centre of the watch. While the blue depth indicator moves to

show current dive depth, the red maximum depth indicator remains at the maximum depth attained in the course of the dive, prevented by a pawl from returning to its original position. The maximum depth indicator can be reset to zero by pressing a push-button next to the pressure converter.



IWC CASES: EXQUISITE MATERIALS AND EFFECTIVE PROTECTION

————— Only the very finest metals are used in IWC watch cases. Of all these, platinum, a discreet, rare and heavy metal with a fineness of 95 per cent, is the purest.

Gold, a timeless precious metal of lasting value, is the embodiment of luxury and elegance. For its gold cases, IWC uses 18-carat gold, containing 75 per cent of the pure metal. Since pure gold would be too soft for use in a watch case, it is alloyed with other metals, which also gives it the desired colour: palladium for white gold, or silver and copper for yellow, rose and red gold (the higher the copper content in these alloys, the darker the case material). Stainless steel is an extraordinarily robust material and, when used in IWC cases, unusually resistant to corrosion.

In 1980, IWC became the first watchmaking company to use titanium in a watch case. Apart from their attractiveness as design features, titanium and titanium alloys are particularly suitable for cases and bracelets because they weigh approximately 50 per cent less than stainless steel and are totally

corrosion-resistant, very hypoallergenic and nonmagnetic. IWC also pioneered the use of ceramic for the watch industry and, in 1986, released the first Da Vinci in a coloured zirconium oxide case. No other group of materials is able to withstand such high temperatures or such mechanical and chemical extremes. Both materials – titanium and ceramic – are brought together in the TOP GUN Pilot's Watches and some of the Ingenieur models. And in 2013, with the Ingenieur family, IWC made its first use of titanium aluminide (TiAl) as a case material. This alloy of titanium and aluminium is lighter and tougher than pure titanium and has a darker surface colour.

Another new addition in 2013 was carbon, a high-tech material that is widely used in motor racing and is not only extremely light but also very robust. And this year, for the first time ever, IWC uses bronze in the case of the Aquatimer Chronograph Edition "Expedition Charles Darwin".

PROTECTION AGAINST MAGNETIC FIELDS

The a) dial, b) casing ring and c) inner back plate of the case form a soft-iron case



Some models from the Pilot's Watches and Ingenieur family offer the movement optimum protection against the effects of external magnetic fields in the form of a soft-iron inner case. The dial, casing ring and inner back plate are made from pure iron and are particularly adept at conducting magnetic flux lines around the movement. This ensures that the watch's rate remains as accurate as possible even in magnetic fields.

Depending on the model in question, the protection provided here – of up to 80,000 amperes per metre – exceeds the Swiss norm for antimagnetic watches more than sixteenfold.

WATER-RESISTANCE

The glass, case, seals and back cover of the watch offer effective protection against water, dust and other external influences



————— The water-resistance of IWC watches is shown in bar and not in metres. Metres, which are often used elsewhere in the watch industry to indicate water-resistance, cannot be equated with the dive depth because of the test procedures that are frequently used. In the new Aquatimer collection IWC has again taken up the tradition of showing the pressure-resistance in bar next to a stylized fish on the back of the watch.

By way of explanation: an IWC watch with an indicated water-resistance of 1 bar is protected against water splashing. With

water-resistance of 3 bar, the watch can be worn when swimming or skiing¹, and at 6 bar it will have no problem with water sports or snorkelling². Diver's watches with an indicated water-resistance of 12 to 20 bar are professional measuring instruments designed for scuba-diving. Special diver's watches resistant to 100 bar or, as in the case of the Aquatimer Automatic 2000, 200 bar are suitable even for deep-sea diving.

¹ Caution on bracelet or strap

² Crown is secured, i.e. screwed down

GLASSES

IWC attaches enormous importance to the suitability of its watches for everyday use. For this reason, the material exclusively used in its current models for front glasses and see-through back covers is sapphire glass.

With a hardness of 9 on the Mohs' scale, it is harder than any other type of glass and topped only by diamond. The glass is made of synthetically manufactured sapphire, which makes it extremely scratch-resistant and less sensitive to impact than

quartz (Mohs 7) or apatite (Mohs 5). Sapphire glasses are first ground into shape and then polished. Many of the sapphire glasses are convex. There are some case designs for which IWC uses convex glass with a distinctly arched edge (also known as "crossed-out" glass). The antireflective coating reduces glare and gives the wearer a crystal-clear view of the dial.



The glass of some Aquatimer watches is up to 3.7 millimetres thick

IWC BRACELETS AND STRAPS

————— The metal bracelet system is based on a sophisticated combination of hinged links and fixing bolts. The mechanism permits wearers to adjust the length of a metal bracelet themselves simply by adding or removing individual links. The metal bracelets found on the Pilot's Watches and the Ingenieur Chronograph Racer are equipped with a special fine-adjustment clasp that enables the wearer to slightly alter the length of the bracelet at any time. All it requires is gentle pressure on the button with the IWC logo at the centre of the cover on the clasp and a gentle tug or push on the bracelet. This is an easy way to compensate for variations in wrist girth and makes the watch more comfortable to wear.

The new, patented IWC bracelet quick-change system for the 2014 Aquatimer generation is also very safe and practical. It makes changing from a stainless-steel bracelet to a rubber strap or vice versa quick and simple. The bracelet is pushed into the locking bar from the top and engages audibly. To release, press the lever outwards with the thumb and push the bracelet up.

In the corrugated rubber strap used for the diver's watch, the first segments are so flexible that the strap adjusts itself effortlessly to fluctuations in the girth of the wrist experienced at high temperatures or when diving. In its XXL version, the corrugated strap can even be worn over a drysuit. The bracelets used in the 2014 Aquatimer collection are interchangeable.



The bracelet clasp can be adjusted at the touch of a button





**PORTUGUESE
SIDÉRALE SCAFUSIA**







**THE PORTUGUESE SIDÉRALE
SCAFUSIA COMBINES
THE ROMANTICISM OF THE
STAR-STUDED NIGHT SKY
WITH RIGOROUS SCIENTIFIC
DEMANDS, COMPLEX
WATCHMAKING TECHNOLOGY
WITH SIMPLE OPERATION,
AND METICULOUS ATTENTION
TO DETAIL WITH VISIONARY
FAR-SIGHTEDNESS**

The night sky has always exerted a magical attraction on human beings: it is difficult for any of us to elude the spell cast by the stars. Even the ancient Egyptians were adept observers of the heavens. They were the first to have the idea of dividing the night sky into twelve equal parts with the help of certain stars. Our division of time – later to be refined by the Greeks – had thus begun. Sidereal time, then, was of enormous significance to the inhabitants of the ancient world.

The Portuguese Sidérale Scafusia is the first timepiece from IWC to display both solar and sidereal time together with other astronomical information. The watch thus combines the romanticism of the star-studded night sky with rigorous scientific demands, complex watchmaking technology with astonishingly simple operation and meticulous attention to detail with visionary far-sightedness. From the front this fascinating masterpiece is a classical Portuguese, from the back an astronomical instrument and on the inside a technical milestone in the history of haute horlogerie.

Initially, the watch designers were confronted by a wealth of new questions. What, precisely, does sidereal time mean? How would it be possible to translate its daily deviation of 3 minutes and 56 seconds from solar time into a wheel train? How could hundreds of celestial bodies be individualized and shown in exact detail? And, above all, how could we generate sufficient power in the mainspring to continue driving all these astronomical details with the necessary precision?

The Sidérale project was an enormous challenge for everyone involved. But it was rather like those distant galaxies: they fascinate us precisely because they appear unreachable. They bring out the researcher in us, the need to uncover their secrets. In 10 years of intense activity, a team of engineers, watchmakers and scientists created a masterpiece of haute horlogerie that sets new standards all round, not least because of the high level of customization it offers.

Complications like the patented constant-force tourbillon, sidereal time and the perpetual calendar testify to the enormous inventiveness of IWC's watchmakers. The meticulous precision of the celestial chart and the superbly worked materials are a demonstration of craftsmanship at its most sublime.

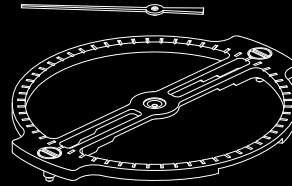
Every watch is unmistakably unique: not simply because the entire celestial chart is calculated individually but also because the customer can personally specify the design of the watch themselves, within the scope of the IWC philosophy. The Portuguese Sidérale Scafusia may be akin to a timepiece from another planet, but it is definitely made in Schaffhausen.

THE CONSTANT-FORCE TOURBILLON: MORE REGULAR THAN A WATCH MOVEMENT

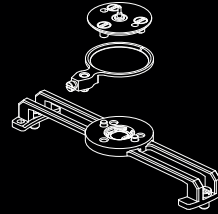
The monotonous ticking sound of a mechanical watch is a universal symbol of an absolutely uniform, unchanging sequence of events. But the impression is deceptive. In mechanical wristwatches, the force transmitted to the escapement varies constantly because there is more tension in the main-spring when it is fully wound than when it begins to run down. Represented graphically, the force exerted by the spring in a conventional hand-wound movement is seen to decline continuously.

For the Portuguese Sidérale Scafusia, and for the first time ever, IWC has integrated a constant-force mechanism into a tourbillon. The tourbillon revolves around its own axis once every 60 seconds. It was originally invented to offset the influence of gravity on a positional error in the balance, and to eliminate the resulting inaccuracy in the watch's rate. In the constant-force tourbillon, the engineers have elegantly combined two complications that serve to increase timekeeping precision.

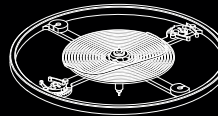
The patented constant-force tourbillon is the beating heart of the watch. Its sophisticated mechanism ensures that the amplitude of the balance, and thus the watch's rate, remain absolutely constant. It does so firstly by disconnecting the escapement from the direct flow of energy running through the wheel train. The energy is stored temporarily in a balance spring and dispensed to the escape wheel. In the process, the tension in the spring is increased once a second and the seconds hand in the tourbillon advances in one-second steps. After approximately 2 days the mechanism switches from constant-force mode to normal mode, as indicated by the one-fifth-of-a-second movements in the seconds hand. The constant-force mechanism thus guarantees an extremely even and precise rate over a period of at least 48 hours.



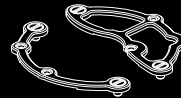
Seconds hand
Tourbillon bridge



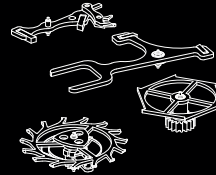
Upper section of cage



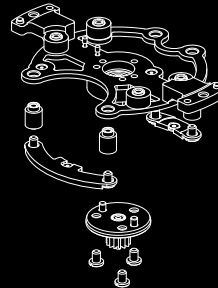
Balance



Escape-wheel bridge
Stop-wheel bridge



Pallet
Constant-force pallet
Stop wheel
Escape wheel with spring



Lower section of cage
Cage pinion



SIDEREAL TIME

IWC
SCHAFFHAUSEN

SWISS MADE

CELESTIAL CHART CUSTOMIZATION: TAILORING THE NIGHT SKY TO THE OWNER'S SPECIFICATIONS

The Portuguese Sidérale Scafusia has a night sky disc that reveals the full glory of the star-studded heavens. Realistically, it is possible to show around 500 to 1,000 stars, every single point representing a real, existing star. The meticulously plotted constellations make it easier to get one's bearing. A precise location chosen by the customer provides the basis for the celestial chart and astronomical displays.

The sky disc rotates in a clockwise or anti-clockwise direction, depending on whether the chosen geographic location is in the southern or northern hemisphere. The horizon, identifiable as a yellow ellipse, shows the movements of the stars and the section of the sky currently visible in the real night sky above the chosen coordinates. These coordinates – the ones in the illustration show IWC headquarters in Schaffhausen – indicate the precise location, accurate to the metre, for which the planisphere has been calculated. They may be displayed in terms of longitude and latitude, but also as GPS data or the name of a town or place.

The red circle projects the apparent orbit of the sun in the course of a year on the celestial sphere.





The dashed grey line indicates the celestial equator. It forms a circular plane that separates the northern and southern hemispheres. The celestial equator forms the imaginary zero line in our celestial sphere: the ecliptic.

The red arrow with the dot shows solar time on a 24-hour display. In this case it is 1.28 p.m. It is the normal time that can also be seen on the dial at the front.

The yellow arrow with the star shows sidereal time on a 24-hour display. In this case it is 8.03 a.m., as can also be seen on the subdial at the front.

The two red triangle hands at the edge show current sunrise and sunset times at the chosen location.

If the customer so wishes, the celestial chart can be made even more personal: by emphasizing particular stars or constellations, for example.



CUSTOMIZATION: DIFFERENT WAYS TO ACHIEVE AN UNMISTAKABLE MASTERPIECE

An extraordinary timepiece like the Portuguese Sidérale Scafusia calls for out-of-the-ordinary materials. The case, for example, is made of precious metals like platinum, 18-carat white gold or 18-carat red gold. The straps are crafted from finest alligator leather or horsehide. The alligator leather straps manufactured by the Italian luxury brand Santoni are famed for their unmistakable appearance. Elaborately finished by hand, every strap from Santoni has an exquisite patina-like shimmer and its own individual nuances of colour.

For IWC Schaffhausen, it goes without saying that customers should be able to choose from many different combinations of features to personalize their Portuguese Sidérale Scafusia

and make it unique. The case materials alone, together with the five different colours for the dial, the various colours for the appliquéd elements and strap, and the material chosen for the bracelet or the strap result in over 200 different possible configurations.

Our specialists are delighted to show interested customers the unique combinations of materials, colours and features possible with the watch. With the help of samples and by putting the individual components together, customer are able to gain an impression of the look and feel of the high-quality, exquisitely finished materials.



AN ASTRONOMICAL INSTRUMENT FOR THE WRIST

————— The Portuguese Sidérale Scafusia is the most exclusive and complicated mechanical watch ever made by IWC. It took the project team at IWC Schaffhausen 10 years to develop and build this spectacular masterpiece. The dial, in the style of a classic Portuguese, features a constant-force tourbillon (cf. page 30) together with displays for the 96-hour power reserve and sidereal time. This deviates from normal solar time by just under 4 minutes each day and, among other things, is needed if we wish to find the same star each night in the same position. The reverse side of the Portuguese Sidérale Scafusia is a fabulous astronomical module calculated precisely to reflect the owner's wishes. From a previously defined location, the rotating night-sky disc shows more than 500 stars and constellations with such detail and precision that it would quicken the pulse of any astronomer. Making the necessary allowances for summer time and winter time, the watch also displays the times of sunrise and sunset, sidereal time and a perpetual calendar with the leap years. In view of the enormous amount of work involved and the more than 200 individual configurations possible, only a few watches are produced each year.



SIDEREAL TIME

IWC
SCHAFFHAUSEN

SWISS MADE



PORTUGUESE SIDÉRALE SCAFUSIA

REFERENCE 5041



REF. IW504101

in platinum with black
alligator leather strap

Case in platinum, 18-carat white gold or 18-carat red gold · Mechanical movement · Hand-wound ·
IWC-manufactured 94900 calibre (94000-calibre family) · 2 barrels · Breguet spring · 96-hour power reserve when fully wound ·
Power reserve display between 4 and 5 o'clock · Constant-force tourbillon and small seconds at 9 o'clock · Sidereal time at
12 o'clock · On the reverse side: perpetual calendar with leap year display and absolute day of the year, star chart showing horizon,
ecliptic and celestial equator, solar time, sidereal time, sunrise and sunset together with displays for day,
night and twilight · Sapphire glass, convex, antireflective coating on both sides · Case height 17.5 mm · Diameter 46 mm





PORTUGUESE



SINCE 1939



The original Portuguese, here a model made in 1944, with its
98-calibre hunter pocket watch movement

PORTUGUESE

————— In the 15th and 16th centuries, the pioneers of Portuguese seafaring Vasco da Gama, Bartolomeu Dias and Fernando Magellan undertook their daring voyages of discovery to West Africa, India and finally across all the world's oceans.

Above all, it was their outstanding sailing skills, their precise nautical charts and the use of instruments such as the astrolabe and Jacob's staff to determine their latitude on the high seas that enabled them to conquer new horizons. The Portuguese watches from IWC are a distant echo from that glorious past. They combine the tradition of nautical instruments with contemporary design and forward-looking mechanics.

At the end of the 1930s, two Portuguese businessmen active in the watch industry were searching for technical precision of the highest order and paid a visit to the factory in Schaffhausen. They ordered wristwatches with steel cases and the accuracy of a marine chronometer. At the time, the only way of meeting their request was with a pocket watch calibre, so IWC decided to take a hunter movement (which also has the crown on the right-hand side) and house it in a wristwatch case. The first Portuguese of 1939 established an IWC watch family whose precision, sheer size and complex mechanics have been a source of pleasure to watch enthusiasts the world over for more than 70 years.

At the Swiss Watch Show in Basel in 1967, IWC presented the Yacht Club Automatic, a superbly crafted men's wristwatch that was perfectly suited to the hardships of life on stormy seas. Small wonder that the Yacht Club soon established itself as one of the best-selling IWC models ever. In 1993, 50 years after delivering the first Portuguese model, IWC reincarnated the tradition of the striking watch family with the anniversary Portuguese watch. In 2000, after 5 years of development, IWC unveiled the Portuguese Automatic with the IWC-manufactured 5000 calibre, an inspired combination of traditional and new IWC technology. Among other things, the imposing IWC pocket-watch-sized movement incorporates bidirectional Pellaton winding and a balance with a Breguet spring for maximum

THE FIRST PORTUGUESE OF 1939 ESTABLISHED AN IWC WATCH FAMILY WHOSE COMPLEX MECHANICS ARE A SOURCE OF PLEASURE TO WATCH ENTHUSIASTS ALL OVER THE WORLD

precision. The newly designed 7-day movement with its power reserve display represented a gigantic technological leap in the history of the automatic movement. In subsequent years, other watchmaking complications such as the perpetual calendar, minute repeater and tourbillon would find their way into the watch family. In 2010, IWC celebrated another "Portuguese" year with a wealth of fascinating new products. Leading the way was the flagship of the collection, the Grande Complication in a Portuguese case. The Portuguese Tourbillon Mystère Rétrograde combines the magic of a floating tourbillon with the logic of a date hand that reverts to its starting position. Featuring echoes of earlier styles, the Portuguese Hand-Wound bridges the gap between the original Portuguese and the present, while the Portuguese Yacht Club Chronograph brings a sporting note to the family.

Since 2013, the Portuguese Chronograph Classic with its balanced, classically inspired design and IWC-manufactured movement has perfectly complemented the watch line. In autumn of last year, the new Portuguese Hand-Wound Eight Days enhanced the collection. Its classic, discreet exterior conceals a powerful IWC-manufactured calibre designed to run for a full 8 days.

ONE OF THE MOST SOPHISTICATED WATCHES IN THE WORLD

————— Vasco da Gama's flagship was a caravel dubbed the São Gabriel; the flagship of the most celebrated watch family from IWC is the Portuguese Grande Complication. Only the best-qualified helmsmen and navigators of their day were good enough to accompany da Gama's fleet; in much the same way, the Portuguese Grande Complication, which is water-resistant to 3 bar, unites a wealth of watchmaking's most outstanding achievements. These include a perpetual calendar that is mechanically programmed until 2499 (it requires just three adjustments in the non-leap years 2100, 2200 and 2300) as well as a perpetual moon phase display and a chronograph. When activated by the repeating slide, the minute repeater chimes out the precise time in harmonious tones. A globe of the world discreetly engraved with lines of latitude and longitude provides a background to the silver-plated dial. On the back cover, an intricate engraving of a sextant, which together with the watch has been an indispensable aid to marine navigation, is an unequivocal sign that the watch is part of the Portuguese watch family. The model in red gold, with solid red gold appliqués and a strap stitched with 18-carat red gold thread, appeared for the first time in 2010. The Portuguese Grande Complication is also available in a platinum case; the strap of this exclusive version is stitched with platinum thread.



IWC
SCHAFFHAUSEN

2014



PORTUGUESE GRANDE COMPLICATION

REFERENCE 3774



REF. IW377401
in platinum with black
alligator leather strap



REF. IW377402
in 18-carat red gold with dark brown
alligator leather strap

Limited edition of a total of 100 watches per year · Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Perpetual calendar with displays for the date, day, month, year in four digits and perpetual moon phase · Stopwatch function with hours, minutes and seconds · Minute repeater for hours, quarters and minutes · Small hacking seconds · Sapphire glass, arched edge, antireflective coating on both sides · Special back engraving · Water-resistant 3 bar · Case height 16.5 mm · Diameter 45 mm



SCHAFFHAUSEN
IWC

SWISS

50
40
30
20
10
0

MADE

ACOUSTIC SIGNS OF THE TIME

————— For Portuguese explorers out on the open sea, timekeeping was of crucial importance. Using a log together with a special sandglass – the log glass – they were able to measure the vessel's speed. The ship's bell, on the other hand, was used to signal the beginning and end of sailors' watches: the bell would be struck once every half-hour and twice every full hour, with four double strikes signalling the end of a watch. The abstract concept of time was thus being converted into acoustic signs even back then. In the Portuguese Minute Repeater, depressing the repeating slide causes a delicate strike train to sound the time out audibly in hours, quarters and minutes: the full hours on a lower tuned gong, the quarters with double strikes, and the number of minutes that have elapsed since the last quarter on the higher of the two gongs. The repeating mechanism consists of over 200 individual parts working together as if they were in a mechanical orchestra. An all-or-nothing piece ensures that the chimes are only struck if the repeating slide is fully depressed. The watch is equipped with the 98950-calibre hunter pocket watch movement, which comes with stylistic elements from the early F. A. Jones calibres. Both versions are limited to 500 watches.



The IWC-manufactured 98295 calibre, the basic movement of the Portuguese Minute Repeater, has an elongated index for precision adjustment of the balance spring's effective length

PORTUGUESE MINUTE REPEATER

REFERENCE 5449



REF. IW544906
in platinum with black
alligator leather strap



REF. IW544907
in 18-carat red gold with brown
alligator leather strap

Limited edition of 500 watches each in platinum and 18-carat red gold · Mechanical movement · Hand-wound · IWC-manufactured 98950 calibre (98000-calibre family) · 46-hour power reserve when fully wound · Minute repeater for hours, quarters and minutes · Small hacking seconds · Glucydur® beryllium alloy balance with high-precision adjustment cam on balance arms · Breguet spring · Three-quarter bridge · Sapphire glass, arched edge, antireflective coating on both sides · See-through sapphire-glass back · Case height 14 mm · Diameter 44 mm



A MARRIAGE OF MYSTERY AND GLAMOUR

————— With an appearance as magical as it is distinctive, the Portuguese Tourbillon Mystère Rétrograde is guaranteed to attract inquisitive glances. Watch lovers will be particularly fascinated by the unusual arrangement of the flying tourbillon, consisting of 82 parts, against a deep black background, creating the illusion that the filigree cage containing the balance is rotating in mid-air. Set in a mirror-finished ring, “12 o’clock” appears to come alive and forms the optical centrepiece of the entire dial. The retrograde date display is not only an original complication but also makes a good deal of sense, because a conventional date disc would conceal the tourbillon. After the 31st of the month, it automatically jumps back to the 1st; in shorter months, the hand can be directly advanced until it reverts to the 1st. On the right-hand side of the dial, the 7-day power reserve display indicates how much energy remains in the IWC-manufactured 51900 calibre. As befitting a timepiece of this quality, the Portuguese Tourbillon Mystère Rétrograde comes in a glamorous red gold case with a silver-plated dial and in platinum with a dial in ruthenium black.

PORTUGUESE TOURBILLON MYSTÈRE RÉTROGRADE

REFERENCE 5044



REF. IW504401

in platinum with black
alligator leather strap

Limited edition of 250 watches in platinum · Mechanical movement · Pellaton automatic winding ·
IWC-manufactured 51900 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Retrograde date display ·
Flying minute tourbillon · Glucydur® beryllium alloy balance with high-precision adjustment cam
on balance arms · Breguet spring · Rotor with 18-carat gold medallion · Sapphire glass, convex, antireflective coating on both sides ·
See-through sapphire-glass back · Water-resistant 3 bar · Case height 15.5 mm · Diameter 44.2 mm

PORTUGUESE TOURBILLON MYSTÈRE RÉTROGRADE

REFERENCE 5044



REF. IW504402

in 18-carat red gold with dark brown
alligator leather strap

Limited edition of 500 watches in 18-carat red gold · Mechanical movement · Pellaton automatic winding ·
IWC-manufactured 51900 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Retrograde date display ·
Flying minute tourbillon · Glucydur® beryllium alloy balance with high-precision adjustment cam
on balance arms · Breguet spring · Rotor with 18-carat gold medallion · Sapphire glass, convex, antireflective coating on both sides ·
See-through sapphire-glass back · Water-resistant 3 bar · Case height 15.5 mm · Diameter 44.2 mm

TOURBILLON: A TOUR DE FORCE



A major challenge during assembly – the tourbillon in the Portuguese Tourbillon Hand-Wound consists of 64 individual parts

————— In the Portuguese Tourbillon Hand-Wound, the “whirlwind” – as the word *tourbillon* translates – revolves on its axis at “9 o’clock” on the dial; or, in nautical terms, at 270 degrees west. The sight of the mechanical, cantilever-mounted minute tourbillon invariably attracts rapt attention from watch lovers. The tourbillon rotates around its own axis once every 60 seconds to counteract the pull of gravity on any disequilibrium in the balance wheel that would adversely affect the watch’s rate and accuracy. The arched-edge front glass gives the watch a more classical and balanced appearance and optically reduces its height. The dial was chosen to match

the case: slate-coloured for the white gold version and silver-plated for the model in 18-carat red gold. The IWC-manufactured 98900-calibre movement with its intricately decorated nickel-silver three-quarter bridge can be admired through the transparent sapphire-glass back. It belongs in the long tradition of the 98 calibre, which was first designed for hunter pocket watches in the 1930s and has since been continuously improved. For this model, IWC’s engineers increased the balance frequency to 28,800 beats per hour, which guarantees excellent precision. The Portuguese Tourbillon Hand-Wound comes with a dark brown Santoni alligator leather strap.

PORTUGUESE TOURBILLON HAND-WOUND

REFERENCE 5463



REF. IW546301

in 18-carat white gold with dark brown
alligator leather strap



REF. IW546302

in 18-carat red gold with dark brown
alligator leather strap

Mechanical movement · Hand-wound · IWC-manufactured 98900 calibre (98000-calibre family) · 54-hour power reserve when fully wound · Flying minute tourbillon at 9 o'clock · Small hacking seconds · Breguet spring · Sapphire glass, arched edge, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 11 mm · Diameter 43 mm · Alligator leather strap by Santoni



DAYS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

MOON PHASE

20 24 29 5 4 8 12 16 19 23 27 31

IWC
SCHAFFHAUSEN

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

SUN MON TUE WED THU FRI SAT

2014

SWISS MADE

COUNTDOWN TO THE NEXT FULL MOON

————— The moon was useful to sailors on the open sea not only for navigational purposes. Its influence on coastal tides has always been of greater importance, because the timing of their ebb and flow is reliably dictated by the moon: at new and full moon, high tides are exceptionally high and low tides exceptionally low. In the English Channel the difference can be up to 11.5 metres and in the Gulf of Maine as much as 21 metres, which illustrates the enormous importance of the moon for shipping. Aside from the date, day, month and year in four digits, the Portuguese Perpetual Calendar also indicates the number of days remaining until the next full moon. The display showing its course and featuring mirror images of the moon in the northern and southern hemispheres deviates from the moon's actual progress by just 12 seconds in one lunar period. The striking colour combination found in the white gold version will increase its attractiveness to watch lovers and stargazers: the rhodium-plated moon-phase indicator discs wax and wane thanks to a midnight blue cut-out display in a dial also finished in midnight blue. In the model with the red gold case, the warm tone provides a pleasing contrast to the black dial.

PORTUGUESE PERPETUAL CALENDAR

REFERENCE 5032



REF. IW503203

in 18-carat white gold with black
alligator leather strap



REF. IW503202

in 18-carat red gold with dark brown
alligator leather strap

Mechanical movement · Pellaton automatic winding · IWC-manufactured 51614 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Perpetual calendar with displays for the date, day, month, year in four digits and perpetual moon phase for the northern and southern hemispheres · Countdown display showing phases until next full moon · Small hacking seconds · Glucydur®* beryllium alloy balance with high-precision adjustment cam on balance arms · Breguet spring · Rotor with 18-carat gold medallion · Sapphire glass, convex, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 15.5 mm · Diameter 44.2 mm



SEVEN (7) DAYS

PROBUS
IWC
SCHAFFHAUSEN

POWER-RESERVE

INTERNATIONAL

SIXTY-TWO (62) JEWELS
ADJUSTED TO FIVE (5) POSITIONS

SWITZERLAND

WATCH CO.

C.51614

2345673

ELEGANT TIME MACHINE



The moon helped mariners to navigate on the open sea and to calculate the tides

————— The moon phase display on the Portuguese Perpetual Calendar, Reference 5023, is a grand-scale theatre on a tiny stage. Attended by a cluster of embossed stars, the moon rises behind the hemispherical cut-out on the left and waxes to full moon in the centre, before disappearing on the right-hand side. IWC's design engineers have calculated that the moon phase display deviates from the duration of the moon's actual course by just 1 day in 577.5 years. No one has so far noticed the difference. In other respects, this elegant,

up-to-the-minute timepiece leaves virtually no wish unfulfilled with its perpetual calendar, window showing the year in four digits and a 7-day automatic movement with the Pellaton winding system and a power reserve display. Reference 5023 is available in three versions: in a platinum case with a silver-plated dial; in a red gold case with a silver-plated dial and a red-gold-plated moon against a blue background; or slightly more restrained, in white gold with rhodium-plated appliqué on a slate-coloured dial with a sun-pattern finish.

PORTUGUESE PERPETUAL CALENDAR

REFERENCE 5023



REF. IW502305
in platinum with black
alligator leather strap



REF. IW502307
in 18-carat white gold with dark brown
alligator leather strap

Limited edition of 250 watches in platinum · Mechanical movement · Pellaton automatic winding · IWC-manufactured 51613 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Perpetual calendar with displays for the date, day, month, year in four digits and perpetual moon phase · Small hacking seconds · Glucydur®* beryllium alloy balance with high-precision adjustment cam on balance arms · Breguet spring · Rotor with 18-carat gold medallion · Sapphire glass, convex, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 15.5 mm · Diameter 44.2 mm

PORTUGUESE PERPETUAL CALENDAR

REFERENCE 5023



REF. IW502306

in 18-carat red gold with dark brown
alligator leather strap

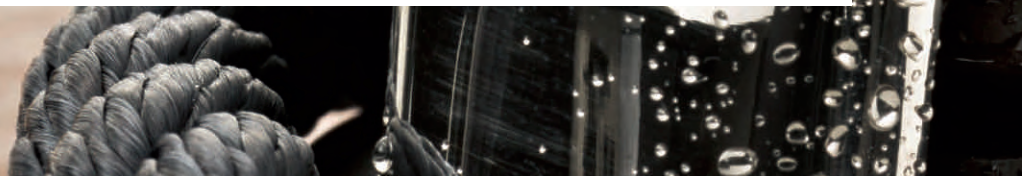
Mechanical movement · Pellaton automatic winding · IWC-manufactured 51613 calibre (50000-calibre family) ·
7-day power reserve when fully wound · Power reserve display · Perpetual calendar with displays for the date, day, month, year in four digits
and perpetual moon phase · Small hacking seconds · Glucydur®* beryllium alloy balance with high-precision
adjustment cam on balance arms · Breguet spring · Rotor with 18-carat gold medallion · Sapphire glass, convex, antireflective coating
on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 15.5 mm · Diameter 44.2 mm



The IWC-manufactured 51613 movement from the dial side. Clearly visible are the moon phase display and the discs for the year in four digits

A PORTUGUESE WITH A SPORTING SPIRIT

————— The name of the Portuguese Yacht Club Chronograph harks back to the legendary Yacht Club Automatic of the 1960s and 1970s, an ocean-going watch so excellent and exclusive that it became one of IWC's most successful watches ever. The Portuguese Yacht Club Chronograph has all the precision of a nautical instrument in its genes and boasts a wealth of advanced technical features. Powered by the rugged IWC-manufactured 89361-calibre movement and water-resistant to 6 bar, the chronograph makes no secret of its sporting credentials with a flyback function, an additional flange with a quarter-second scale for recording short periods of time and an analogue display for recording longer stop times on a subdial. The Portuguese Yacht Club Chronograph features crown protection along with luminescent hands and indices. It is available in steel with a black or silver-plated dial and in 18-carat red gold with a slate-coloured dial and black counters. It is supplied with a rubber strap, making it the perfect companion for water sports of all kinds.





PORTUGUESE YACHT CLUB CHRONOGRAPH

REFERENCE 3902



REF. IW390209

in 18-carat red gold with black
rubber strap

Mechanical chronograph movement · Self-winding · IWC-manufactured 89361 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 6 bar · Case height 14.5 mm · Diameter 45.4 mm

PORTUGUESE YACHT CLUB CHRONOGRAPH

REFERENCE 3902



REF. IW390210
in stainless steel with black
rubber strap



REF. IW390211
in stainless steel with black
rubber strap

Mechanical chronograph movement · Self-winding · IWC-manufactured 89361 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 6 bar · Case height 14.5 mm · Diameter 45.4 mm

A REINTERPRETATION OF A CLASSIC TIMEPIECE

————— You could call this chronograph in the Portuguese family the big brother of the Reference 3714. The model is slightly larger in diameter and 2 millimetres higher, although the latter makes little difference optically because of the arched-edge front glass. This traditional type of glass gives the design a classic balance that is enhanced by the railway-track-style chapter ring, which also gave the original Portuguese its distinctive appearance. The Portuguese Chronograph Classic is equipped with the IWC-manufactured 89361 calibre. The movement was developed specially to show stopped times up to 12 hours on a separate subdial, which can be read off like the time of day. The Reference 3904 is available in 18-carat red gold or stainless steel with either a silver-plated or slate-coloured dial. The rotor, decorated with Geneva stripes, can be seen through the transparent sapphire-glass back. All models are supplied with a Santoni strap made of alligator leather.



PORTUGUESE CHRONOGRAPH CLASSIC

REFERENCE 3904



REF. IW390402

in 18-carat red gold with brown
alligator leather strap



REF. IW390405

in 18-carat red gold with black
alligator leather strap



BACK VIEW

for both References
(shown here is IW390402)

Mechanical chronograph movement · Self-winding · IWC-manufactured 89361 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Sapphire glass, arched edge, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 14.5 mm · Diameter 42 mm · Alligator leather strap by Santoni

PORTUGUESE CHRONOGRAPH CLASSIC

REFERENCE 3904



REF. IW390404
in stainless steel with black
alligator leather strap



REF. IW390403
in stainless steel with black
alligator leather strap

Mechanical chronograph movement · Self-winding · IWC-manufactured 89361 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Sapphire glass, arched edge, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 14.5 mm · Diameter 42 mm · Alligator leather strap by Santoni

ZEITGEIST COMBINED WITH TRADITION

————— Since its debut in 2004, the Portuguese Automatic with date display has become one of the most successful Portuguese models ever to come from Schaffhausen. The balanced dial design, with its appliquéd Arabic numerals, railway-track-style chapter ring and slender feuille hands, retains the classic appeal of the legendary original Portuguese, first manufactured in the 1930s. Its spiritual roots reach all the way back to the voyages of discovery undertaken by the Portuguese seafarers. The voluminous IWC-manufactured 51011 calibre integrates all the finest features ever to grace an automatic movement, such as the highly efficient Pellaton winding system and a 7-day power reserve. Since 2010, the Portuguese Automatic's 42.3-millimetre case has been available in warm-toned, 18-carat red gold. The appliqués on the silver-plated dial are likewise made of red gold. The steel model with its silver-plated dial (like the earlier steel versions) was fitted with rose-gold-plated hands, numerals and hour indices: luxury befitting of a watch model so much in demand. The Portuguese Automatic in 18-carat white gold and the other steel models complete the collection.





The voluminous IWC-manufactured 51011 calibre with its spring-mounted rotor and Pellaton pawl-winding system

PORTUGUESE AUTOMATIC

REFERENCE 5001



REF. IW500106

in 18-carat white gold with dark brown
alligator leather strap

Mechanical movement · Pellaton automatic winding · IWC-manufactured 51011 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Date display · Small hacking seconds at 9 o'clock · Glucydur® beryllium alloy balance with high-precision adjustment cam on balance arms · Breguet spring · Rotor with 18-carat gold medallion · Sapphire glass, convex, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 14 mm · Diameter 42.3 mm

PORTUGUESE AUTOMATIC

REFERENCE 5001



REF. IW500113

in 18-carat red gold with dark brown
alligator leather strap



REF. IW500114

in stainless steel with black
alligator leather strap

Mechanical movement · Pellaton automatic winding · IWC-manufactured 51011 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Date display · Small hacking seconds at 9 o'clock · Glucydur® beryllium alloy balance with high-precision adjustment cam on balance arms · Breguet spring · Rotor with 18-carat gold medallion · Sapphire glass, convex, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 14 mm · Diameter 42.3 mm

PORTUGUESE AUTOMATIC

REFERENCE 5001



REF. IW500107
in stainless steel with blue
alligator leather strap



REF. IW500109
in stainless steel with black
alligator leather strap

Mechanical movement · Pellaton automatic winding · IWC-manufactured 51011 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Date display · Small hacking seconds at 9 o'clock · Glucydur® beryllium alloy balance with high-precision adjustment cam on balance arms · Breguet spring · Rotor with 18-carat gold medallion · Sapphire glass, convex, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 14 mm · Diameter 42.3 mm

THE MOST STYLISH WAY OF MEASURING TIME

————— The tradition behind the Portuguese family of watches stretches all the way back to the precision nautical instruments used by seafarers to discover the world. A traditional line like this needs a chronograph with a scale calibrated to an accuracy of a quarter of a second. The elegant design and moderate height of the case have made the Portuguese Chronograph one of the most sought-after Portuguese models of them all. Everything is integrated harmoniously on the clearly organized dial: the recessed totalizers, the embossed Arabic numerals and the perfectly proportioned feuille hands for hours and minutes. The chronographs in cases with the warm appeal of 18-carat red gold exude distinctive luxury. The slate-coloured dial with its shimmering sun-pattern finish provides a discreet contrast to the deep black counters, while the blued hands for periods of stopped time provide a colourful highlight to the silver-plated dial.



IWC
SCHAFFHAUSEN

CHRONOGRAPH
AUTOMATIC

SWISS
MADE

PORTUGUESE CHRONOGRAPH

REFERENCE 3714



REF. IW371482
in 18-carat red gold with black
alligator leather strap



REF. IW371480
in 18-carat red gold with dark brown
alligator leather strap

Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Stopwatch function with minutes and seconds · Small hacking seconds · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 3 bar · Case height 12.3 mm · Diameter 40.9 mm

PORTUGUESE CHRONOGRAPH

REFERENCE 3714



REF. IW371445
in stainless steel with black
alligator leather strap



REF. IW371447
in stainless steel with black
alligator leather strap



REF. IW371446
in stainless steel with blue
alligator leather strap

Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Stopwatch function with minutes and seconds · Small hacking seconds · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 3 bar · Case height 12.3 mm · Diameter 40.9 mm



IT NEEDS WINDING JUST ONCE A WEEK

————— In 2013, the 59000-calibre family made its entry into the Portuguese family. After further development, the IWC-manufactured 59215 calibre reliably supplies the watch with energy for a full 8 days. For many watch lovers, winding the Portuguese Hand-Wound Eight Days is both a fixed weekly ritual and a physical pleasure. The actual power reserve is a full 9 days, but an intelligent blocking device restricts the power reserve to the first 192 hours, when the tension in the mainspring remains at its most regular. The Portuguese Hand-Wound Eight Days leans heavily on the purist design of the original Portuguese in the 1930s: arched-edge front glass, railway-track-style chapter ring and feuille hands together with a small seconds dial at “6 o’clock”. To retain the characteristic symmetry and simplicity of the dial, the designers positioned the power reserve display on the watch’s movement side, which is decorated with Geneva stripes and can be seen through the transparent sapphire glass. The Portuguese Hand-Wound Eight Days is available in 18-carat red gold with a silver-plated dial or in stainless steel with a silver-plated or black dial. All models are supplied with a fine-quality alligator leather strap from the House of Santoni.

PORTUGUESE HAND-WOUND EIGHT DAYS

REFERENCE 5102



REF. IW510204

in 18-carat red gold with dark brown
alligator leather strap

Mechanical movement · Hand-wound · IWC-manufactured 59215 calibre (59000-calibre family) · 8-day power reserve when fully wound · Power reserve display on reverse side · Date display · Small hacking seconds · Breguet spring · Sapphire glass, arched edge, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 12 mm · Diameter 43 mm · Alligator leather strap by Santoni

PORTUGUESE HAND-WOUND EIGHT DAYS

REFERENCE 5102



REF. IW510202
in stainless steel with black
alligator leather strap



REF. IW510203
in stainless steel with black
alligator leather strap

Mechanical movement · Hand-wound · IWC-manufactured 59215 calibre (59000-calibre family) · 8-day power reserve when fully wound · Power reserve display on reverse side · Date display · Small hacking seconds · Breguet spring · Sapphire glass, arched edge, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 12 mm · Diameter 43 mm · Alligator leather strap by Santoni



THE POWER OF SPORT TO CHANGE THE WORLD



————— Sport is a universal language. It is understood all over the world and brings people together. It is a form of training for life that can be a source of encouragement to socially, physically or economically disadvantaged children and adolescents searching for a better life. The Laureus Sport for Good Foundation, founded by Daimler and Richemont in 2000, uses the power of sport in its efforts to alleviate social problems. The Foundation is represented by its partners IWC Schaffhausen and Mercedes-Benz, for whom it is a means of discharging their corporate social responsibility. The Laureus Sport for Good Foundation currently supports over 140 projects around the globe. They address some of the greatest social challenges of our time, especially those affecting young people and children, such as social exclusion and racism. Whether in Mali, Lesotho or Buenos Aires, or disadvantaged areas of Milan and New York, the Laureus Sport for Good Foundation organizes on-the-spot sporting activities that attract young people and convey universal values.



Edwin Moses, Chairman of the Laureus World Sports Academy

Since its inception, Laureus has supported projects which have helped to improve the lives of over 1.5 million young people. The Foundation is actively supported in its work by the Laureus World Sports Academy, whose members – all much-respected sporting figures – come from every part of the globe. Between them they hold over 100 Olympic medals, 100 world championship titles and 200 world records. Academy Members like Mark Spitz, Sergey Bubka and Cathy Freeman work jointly with the Chairman of the Laureus World Sports Academy, Edwin Moses, using sport as a means of helping young children in their mental, physical and social development. National Foundations in Argentina, Germany, Italy, the Netherlands, Spain, South Africa, Switzerland and the USA provide the projects with on-the-spot support.

The Laureus project Cavallo organized by the Laureus Foundation Switzerland fosters the social skills and personal development of children from socially or economically disadvantaged backgrounds. By having direct contact with and doing exercises with horses, by caring for them and by working in the

stables, young people learn to take on responsibility, as well as to increase their patience and ability to assert themselves. Riding improves their motor skills while contact with the animals increases their powers of perception, their self-confidence and their sense of responsibility – all qualities that are often not encouraged in the participating children off project in their family settings.

The Grupo Desportivo de Manica (GDM) is a social and sports club in the town of Manica in Mozambique. It offers disadvantaged children, many of whom live below the poverty line, a home for their sporting activities. In the early 1990s, decades of war and civil unrest in Mozambique were followed by a period of freedom and stability that allowed the people to start rebuilding their country. In Manica, this involved the founding

WE CAN DO FAR MORE IN SPORT TODAY THAN SEW LOGOS ON T-SHIRTS

of the GDM. The club, which is effectively the heartbeat of the region, is part of the Laureus Sport for Good Foundation. Many of the participants have lost one if not both parents, and around 40 per cent come from broken homes. They are generally aged between 11 and 27, but some are as young as 6. For many, who lack the security and loving care of a family, the sports team often becomes their effective home, where they eat, play and live with their peers. In the club, the older players are their role models and the “big brothers” who look after them. As is to be expected, football is the most popular sport, but they can also play basketball and volleyball and take advantage of the facilities for table tennis, fitness training and chess. They can learn the basics of IT and English, too. Sports activities are often paired with HIV/AIDS awareness campaigns; HIV is a

major problem in Mozambique. Official figures show 11.5 per cent of adults as HIV-positive and, according to UNICEF, there are around 470,000 children whose parents have died of the disease.

In Russia, the integration of the intellectually disabled into society is still very much in its infancy. The organisation Special Olympics Russia has taken it upon itself to train young people and adults with intellectual disabilities in the Olympic disciplines and to give them a chance to take part in sporting competition. This not only improves their physical fitness. Together with their families and other athletes, the young people, who come from special schools and psycho-neurological institutes, discover their own talents, learn what it means to be accepted by a team and make friends with other young people of the same age.

THE LAUREUS SPORT FOR GOOD FOUNDATION CURRENTLY SUPPORTS OVER 140 PROJECTS AROUND THE GLOBE

Mixed teams of athletes with and without intellectual disabilities help dismantle prejudice both on and off the field, while boosting the participants' self-esteem. Their opponents come from schools, sports schools and sports clubs. Special Olympics Russia promotes regular training and sports competitions in 62 regions of the Russian Federation. Over 110,000 athletes participate at all levels, from school tournaments to regional championships or even international events. Special Olympics Russia also demands that politicians take a stand against inequality and intolerance, and that they recognize the abilities and achievements of the mentally challenged.

One of the individuals taking part in Special Olympics Russia is 16-year-old Masha Nikulina of Russia. She is also the winner of the annual children's drawing competition organized by the Laureus Sport for Good Foundation.



The Special Olympics Russia organization gives disadvantaged children and adults access to sport and regular training



BLUE IS THE COLOUR OF HOPE

————— The latest IWC “Laureus Sport for Good Foundation” special edition is already the eighth in the series. And, once again, the colour of hope for disadvantaged children is blue: the unmistakable Laureus blue found on the dial of the Portuguese Chronograph Classic. Water-resistant to 3 bar, the watch is fitted with the rugged IWC-manufactured 89361 calibre and features a flyback function, an imprint at the edge of the dial with a quarter-second scale for measuring periods of time up to a minute and an analogue display in a subdial for keeping track of times longer than a minute.

In 2013, in keeping with a revered tradition, IWC Schaffhausen organized another children’s drawing competition throughout all the Laureus Sport for Good Foundation projects. The subject of this year’s competition, “Time to play”, encouraged many children and adolescents from all over the world to submit entries. The jury chose the drawing by 16-year-old Masha Nikulina from the Russian Federation. Her artistically ambitious picture shows happy children skiing and playing around in the snow. The winning design is engraved on the back of the case. The engraving is a reminder that some of the sales proceeds are destined to help Laureus Sport for Good Foundation projects in some of the world’s most problematic regions.





PORTUGUESE CHRONOGRAPH CLASSIC EDITION “LAUREUS SPORT FOR GOOD FOUNDATION”

REFERENCE 3904



REF. IW390406

in stainless steel with black
alligator leather strap

Limited edition of 1,000 watches in stainless steel · Mechanical chronograph movement · Self-winding · IWC-manufactured 89361 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Sapphire glass, arched edge, antireflective coating on both sides · Special back engraving · Water-resistant 3 bar · Case height 14.5 mm · Diameter 42 mm · Alligator leather strap by Santoni





PORTOFINO

SINCE 1984



The size and classical elegance of the first Portofino
assured it widespread attention

————— In the 1950s, Hollywood greats like Grace Kelly, Elizabeth Taylor and Humphrey Bogart discovered the idyllic fishing village of Portofino on the Ligurian coast for themselves – and, with it, a taste for the easy-going Mediterranean lifestyle. You simply took a seat in one of the cafés at the piazzetta next to the harbour, sipped espresso and watched the boats arrive. For the paparazzi the little houses in red and terracotta, clustered tightly around the picturesque natural harbour, provided the perfect backdrop for stars and celebrities. In the 1960s, the village teemed with celebrities as Italian cinema enjoyed its most glorious epoch. Its glamour was underlined by the presence of actresses such as Sophia Loren, Gina Lollobrigida and Claudia Cardinale, as well as scores of famous directors and artists. Even today, the Italian and international jet set gather in Portofino to savour the atmosphere of the Mediterranean dolce vita.

The classically elegant Portofino watch family reflects this attitude towards life. For more than a quarter of a century, it has been the unassuming star of the IWC collections, an expression of understatement and good taste.

In the late 1970s and early 1980s, mass-produced watches with quartz movements and ever more unconventional design watches were dominating the market. Nevertheless, IWC noticed that there was still a steady demand for more classical models. These watches had to be reliable, retain their value and remain stylish, without being part of a fashion trend. The visual concept for the new watch family came from timeless watches like the Reference 380 of the 1950s, whose purist-inspired, functional lines largely determined the basic design of the Portofino watch line.

The Reference 5251 was the inspiration for the Portofino line. In 1984, it surpassed all the trends prevailing at the time and – with its 46-millimetre case – was not easy to miss. Its clearly defined proportions, original design and small production run have ensured that the original Portofino is a much sought-after rarity among collectors today.

THE UNASSUMING STAR OF THE IWC COLLECTIONS FOR MORE THAN A QUARTER OF A CENTURY, AN EXPRESSION OF UNDERSTATEMENT AND GOOD TASTE

In 1988, to mark its 120th anniversary, IWC unveiled the Reference 2532, an elegant, consummately designed timepiece in a gold case with Roman numerals. That same year saw the appearance of the Portofino Reference 3731 with the hybrid 631-calibre movement. Although the chronograph consisted of 233 parts, the height of the movement was just 3.8 millimetres – a stroke of genius. In 1993, IWC presented the Portofino Hand-Wound, with a movement just 1.85 millimetres thick. The slimmest of all IWC watches, it was sold successfully until 2005. In 2007, the watch family was expanded to include a mechanical chronograph.

In 2011, the year of the Portofino, fans of this traditional watch family took pleasure in the launch of revised as well as newly developed watch models. With its IWC-manufactured 59210-calibre movement, the Portofino Hand-Wound Eight Days impressively scaled the Mount Olympus of haute horlogerie. The stainless-steel versions of the Portofino Automatic and Chronograph are likewise available with a Milanaisé mesh bracelet in stainless steel in the elegant style of the 1960s.

This year, the IWC-manufactured, 8-day 59000-calibre family has been extended: thanks to the new 59230 calibre, the Portofino watch family now also includes a model with a big date display.



THE FIRST PORTOFINO WITH A DOUBLE-DIGIT BIG DATE

————— Eagerly awaited by Portofino lovers, the eye-catching large date window joins the watch family this year. This type of digital display, an IWC tradition reaching back all the way to 1884, makes it considerably easier to read and, located just under the Roman twelve, perfectly complements the classic design of the dial. The in-house 59000-calibre family has been extended to include the 59230 calibre with its 8-day movement and large, double-digit date display. The Portofino Hand-Wound Big Date is available in a cool-looking 18-carat white gold case with a slate-coloured dial and a black Santoni alligator leather strap. Alternatively, there is the warmer 18-carat red gold case teamed with a silver-plated dial and dark brown alligator leather strap.

PORTOFINO HAND-WOUND BIG DATE

REFERENCE 5161



REF. IW516101
in 18-carat white gold with black
alligator leather strap

Mechanical movement · Hand-wound · IWC-manufactured 59230 calibre (59000-calibre family) · 8-day power reserve when fully wound · Power reserve display · Large, double-digit date display · Small hacking seconds · Breguet spring · Sapphire glass, arched edge, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 13 mm · Diameter 45 mm · Alligator leather strap by Santoni

PORTOFINO HAND-WOUND BIG DATE

REFERENCE 5161



REF. IW516102
in 18-carat red gold with dark brown
alligator leather strap

Mechanical movement · Hand-wound · IWC-manufactured 59230 calibre (59000-calibre family) · 8-day power reserve when fully wound · Power reserve display · Large, double-digit date display · Small hacking seconds · Breguet spring · Sapphire glass, arched edge, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 13 mm · Diameter 45 mm · Alligator leather strap by Santoni



IWC
SCHAFFHAUSEN

PORTOFINO

25

8 DAYS
0 2 4 6 8

10 20 30 40 50 60

SWISS
MADE

ELEGANCE WITH POWER FOR 192 HOURS

————— There are moments you look forward to all week long. Since 2011, for many lovers of fine watchmaking, winding the Portofino Hand-Wound Eight Days has been one of them. Its IWC-manufactured 59210-calibre movement will run precisely and reliably for a full 192 hours, or 8 days, before it automatically stops. The power remaining can be read off on the power reserve display on the dial between “8” and “9 o'clock”. Together with the small seconds display at “6 o'clock” and the date display at “3”, this gives the dial a pleasing equilibrium. The indexless balance has a frequency of 28,800 beats per hour and, together with the Breguet spring bent into shape in accordance with ancient watchmaking tradition, helps to make the watch exceptionally accurate. The watch is available in a gold case with a slate-coloured or silver-plated dial and solid gold indices, or in a stainless-steel case with a silver-plated, black or blue dial with gold- or rhodium-plated indices. All models have a transparent sapphire-glass back and alligator leather straps by Santoni.



It only needs winding once a week: the 59210 calibre is the first IWC hand-wound movement to feature an 8-day power reserve

PORTOFINO HAND-WOUND EIGHT DAYS

REFERENCE 5101



REF. IW510104

in 18-carat red gold with dark brown
alligator leather strap



REF. IW510107

in 18-carat red gold with dark brown
alligator leather strap

Mechanical movement · Hand-wound · IWC-manufactured 59210 calibre (59000-calibre family) · 8-day power reserve when fully wound · Power reserve display · Date display · Small hacking seconds · Breguet spring · Sapphire glass, arched edge, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 12 mm · Diameter 45 mm · Alligator leather strap by Santoni

PORTOFINO HAND-WOUND EIGHT DAYS

REFERENCE 5101



REF. IW510103
in stainless steel with brown
alligator leather strap



REF. IW510102
in stainless steel with dark brown
alligator leather strap

Mechanical movement · Hand-wound · IWC-manufactured 59210 calibre (59000-calibre family) · 8-day power reserve when fully wound · Power reserve display · Date display · Small hacking seconds · Breguet spring · Sapphire glass, arched edge, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 12 mm · Diameter 45 mm · Alligator leather strap by Santoni

PORTOFINO HAND-WOUND EIGHT DAYS

REFERENCE 5101

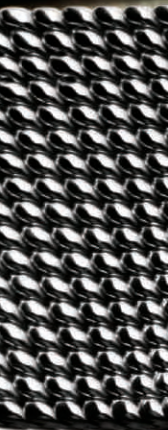


REF. IW510106
in stainless steel with black
alligator leather strap

Mechanical movement · Hand-wound · IWC-manufactured 59210 calibre (59000-calibre family) · 8-day power reserve when fully wound · Power reserve display · Date display · Small hacking seconds · Breguet spring · Sapphire glass, arched edge, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 3 bar · Case height 12 mm · Diameter 45 mm · Alligator leather strap by Santoni

TIMELESS ELEGANCE CAN BE MEASURED

————— If you were to approach the former fishing village of Portofino from the sea, the picturesque old houses could easily trick you into thinking that time had stood still, until you suddenly notice the sleek yachts with their luxury interiors and state-of-the-art technology lying at anchor. The elegant Portofino Chronograph provokes a similar reaction; its striking chronograph push-buttons are reminiscent of the cockpits of 1960s Italian sports cars. In much the same style, the stopwatch displays bring a distinctly sporty touch to the entire Portofino family. The watch, which features a convex sapphire glass and appliquéd Roman numerals, is driven by the time-tested self-winding 75320 calibre with its 44-hour power reserve. Apart from the classic alligator leather straps, there is a choice of cool but snug-fitting Milanaise mesh bracelets that underline the timeless character of the Portofino Chronograph.







IWC
MON 25
SCHAFFHAUSEN

SWISS MADE

PORTOFINO CHRONOGRAPH

REFERENCE 3910



REF. IW391020

in 18-carat red gold with dark brown
alligator leather strap



REF. IW391021

in 18-carat red gold with dark brown
alligator leather strap



BACK VIEW

for both References
(shown here is IW391020)

Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Date and day display ·
Stopwatch function with hours, minutes and seconds · Small hacking seconds · Sapphire glass, convex,
antireflective coating on both sides · Special back engraving · Water-resistant 3 bar · Case height 13.5 mm · Diameter 42 mm

PORTOFINO CHRONOGRAPH

REFERENCE 3910



REF. IW391007

in stainless steel with dark brown
alligator leather strap



REF. IW391008

in stainless steel with black
alligator leather strap

Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Date and day display ·
Stopwatch function with hours, minutes and seconds · Small hacking seconds ·
Sapphire glass, convex, antireflective coating on both sides · Water-resistant 3 bar · Case height 13.5 mm · Diameter 42 mm

PORTOFINO CHRONOGRAPH

REFERENCE 3910



REF. IW391009
in stainless steel with Milanese
mesh bracelet in stainless steel



REF. IW391010
in stainless steel with Milanese
mesh bracelet in stainless steel

Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Date and day display · Stopwatch function with hours, minutes and seconds · Small hacking seconds · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 3 bar · Case height 13.5 mm · Diameter 42 mm · Milanese mesh bracelet in stainless steel

THREE HANDS, ONE CONCEPT

————— For many years, the secret of the Portofino Automatic's success has been its classic simplicity. With its three hands and discreet date display, it is the epitome of good taste and needs no more. The solid, mechanical automatic movement reliably ticks away the time. In 2011, for the first time ever, the Portofino Automatic featured a modern 40-millimetre case and the evenly rounded sides made it appear even slimmer. The red gold version with its silver-plated dial is available with an alligator leather strap. Buyers of the Portofino Automatic in stainless steel can choose between a silver-plated or black dial. The steel models are also available with a high-quality Milanaise mesh bracelet in stainless steel. The back cover of the 18-carat red gold model is decorated with an exquisite engraving that shows a view of the harbour at Portofino.

ART F-42



PORTOFINO AUTOMATIC

REFERENCE 3565



REF. IW356504

in 18-carat red gold with dark brown
alligator leather strap



REF. IW356511

in 18-carat red gold with dark brown
alligator leather strap

Mechanical movement · Self-winding · 42-hour power reserve when fully wound · Date display ·
Central hacking seconds · Sapphire glass, convex, antireflective coating
on both sides · Special back engraving · Water-resistant 3 bar · Case height 9.5 mm · Diameter 40 mm



INTERNATIONAL WATCH CO.

IWC Au750

2345678

PORTOFINO

PORTOFINO AUTOMATIC

REFERENCE 3565



REF. IW356501
in stainless steel with black
alligator leather strap



REF. IW356502
in stainless steel with black
alligator leather strap

Mechanical movement · Self-winding · 42-hour power reserve when fully wound · Date display ·
Central hacking seconds · Sapphire glass, convex, antireflective
coating on both sides · Water-resistant 3 bar · Case height 9.5 mm · Diameter 40 mm

PORTOFINO AUTOMATIC

REFERENCE 3565



REF. IW356505
in stainless steel with Milanese
mesh bracelet in stainless steel



REF. IW356506
in stainless steel with Milanese
mesh bracelet in stainless steel

Mechanical movement · Self-winding · 42-hour power reserve when fully wound · Date display · Central hacking seconds ·
Sapphire glass, convex, antireflective coating on both sides ·
Water-resistant 3 bar · Case height 9.5 mm · Diameter 40 mm · Milanese mesh bracelet in stainless steel



AQUATIMER



SINCE 1967



The first Aquatimer, 1967

_____ Basking in the sunshine on the igneous black rock, the iguanas – both terrestrial and marine varieties – look more like fairy-tale dragons. The flamingos and turtles enjoy the warmth on land. In glittering, turquoise and green coves, squadrons of manta rays patrol the shallows while sea lions cavort in the cool waters of the Humboldt Current. Hammerheads circle at lower depths. The Galapagos Islands, 1,000 kilometres from the South American mainland, are one of the last natural paradises on earth. Forty per cent of the fauna living in the archipelago can only be found here.

The budding British naturalist Charles Darwin visited the Galapagos Islands in 1835 in the course of an expedition. He found a unique plant and animal ecosystem that differed from one island to the next. The observations he made here formed the essence of his lifework “The Origin of Species”, which was published in 1859, and has since been the basis of the modern theory of evolution. This year, in honour of the ingenious researcher and his Galapagos expedition, IWC is pleased to unveil a special edition, housed in a bronze case.

Exactly 136 years after Darwin, “Captain” Jacques Cousteau set course for the archipelago with his research vessel, the Calypso. He wanted to make a close-up study of the Galapagos marine iguanas, the creatures Darwin had called the “imps of darkness”. Cousteau’s film “The Dragons of Galapagos” helped generate more awareness of the islands’ sensitive ecological balance above and below the surface. In 2014, IWC is dedicating a special edition of the Aquatimer to the passionate inventor, researcher and film-maker for the sixth time.

In response to the destruction of the environment of the Galapagos Islands, the Charles Darwin Foundation (CDF) was founded in 1959 and the Charles Darwin Research Station, based on the island of Santa Cruz, in 1964. The Research Station, which celebrates its 50th anniversary in 2014, is dedicated to preserving the delicate ecosystem. As part of an international network, more than 100 scientists and voluntary helpers share the findings of their scientific research on the protection of fauna and flora.

DARWIN’S OBSERVATIONS FORMED THE BASIS OF HIS GREATEST WORK, “THE ORIGIN OF SPECIES”, WHICH WAS PUBLISHED IN 1859 AND HAS SINCE BEEN THE BASIS OF THE MODERN THEORY OF EVOLUTION



The sight of turtles gliding through the ocean is a majestic one

THE GALAPAGOS ISLANDS ARE ONE OF THE LAST REMAINING NATURAL PARADISES ON EARTH. FORTY PER CENT OF ALL ANIMALS LIVING IN THE ARCHIPELAGO ARE FOUND ONLY HERE

Their research work and successful control of invasive species is both labour-intensive and costly. However, both the Charles Darwin Foundation and the Charles Darwin Research Station are largely dependent on donations to continue operating. For many years now, IWC has felt a deep sense of responsibility towards the principle of sustainability and makes a sizeable contribution to both charitable organizations to enable them to keep up their good work.

IWC Schaffhausen has had close connections with diving since the 1960s. In 1967, its growing popularity prompted the company to introduce the first Aquatimer. It was pressure-resistant to 20 bar and featured an internal rotating bezel to display dive time. In 1982, the first diver's watch in titanium, pressure-resistant to 200 bar with an external rotating bezel, created a sensation: the Ocean 2000. In 1997, IWC rolled out the GST sports watch line, which rapidly became synonymous with ruggedness combined with suitability for everyday use. The inventive ethos of IWC's engineers led to the GST Deep One in 1999. This striking diver's watch in a titanium case was the first IWC watch to feature a mechanical depth gauge. The latest collection has a worthy successor in the Aquatimer Deep Three. In 2009, IWC brought a completely revised Aquatimer collection onto the market. The diver's watches featured a chunky external rotating bezel with an inset sapphire glass whose underside was treated with a thick coating of Super-LumiNova®*.

The new 2014 Aquatimer collection has a more discreet look with more subdued colours than the previous generation. After all, IWC diver's watches are no longer reserved exclusively for underwater use but are often found in expeditions on terra firma, at festive occasions or even in the office. The watches are also more functional and safer, and even more Aquatimer models are now fitted with IWC-manufactured movements.

The most conspicuous new development is the case design with the new external/internal rotating bezel. It combines the advantages of an internal rotating bezel with the ease of use of an external rotating bezel. The external rotating bezel with its SafeDive system can be moved simply and precisely in steps of one minute, even when wearing diving gloves or with cold fingers. For safety reasons it can only be turned anticlockwise. This ensures that even if a diver moves the bezel accidentally, zero hour – the time at which he can return safely to the surface without the need for decompression stops – is not exceeded.



The waters around the archipelago are one of the world's largest marine conservation areas

The new rotating bezel concept also changes the appearance of the latest Aquatimer generation. Thanks to the narrower bezel with the chamfered inner surface, the watch appears less bulky, and this is even taking into account the new cover for the sliding clutch system at "9 o'clock". The purist-inspired, discreetly coloured dial leans on the design of the first Aquatimer in 1967. The typically elaborate case finishing with alternating polished and brushed surfaces helps underscore the luxurious look and feel of the new collection. In future, all Aquatimers will feature the traditional fish symbol showing the permitted dive depth in bar on the back of the case.

The Super-LumiNova®* coating for the dive time scale on the internal bezel guarantees excellent legibility no matter how poor the visibility. The two colours of the glowing figures in darkness are also an aid to orientation on the dial. And with the new IWC bracelet quick-change system, swapping the stainless-steel bracelet for the rubber strap, and vice versa, is a snap.

The new Aquatimer generation represents another step in the further technical evolution of IWC diver's watches. This process of continuous improvement and development is a prime example of what is probably Darwin's best-known quotation: "It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is the most adaptable to change."



The dive sites around the Galapagos Islands are renowned for schools of hammerhead sharks



PERFECT FOR THE ASCENT

Galapagos marine iguanas are masters of energy efficiency. They bask in the sun on the baking hot volcanic rock for hours on end, storing the energy they need for their strength-sapping dives. In cold water they reduce their energy requirements by slowing down their heartbeat. The conservation of energy, incidentally, plays an important role not only biologically but also in watch technology. In order to advance its large month display discs, the Aquatimer Perpetual Calendar Digital Date-Month requires more power than the in-house automatic 89801 calibre can provide. For this reason, every night when the date display is advanced, the quick-action switch taps a little energy and stores it until the end of the month. With its impressive case diameter of 49 millimetres, the Aquatimer Perpetual Calendar Digital Date-Month is the second-largest wristwatch in the history of IWC – just behind the Big Pilot's Watch launched in 1940. The unusual combination of materials – 18-carat red gold with rubber-coated titanium – gives the watch an appearance which is at the same time luxurious and sporty. The date and month discs have semi-transparent perforated covers that provide a view of the complex mechanism within. The designers took their inspiration for this particular element from the filter systems that are omnipresent on all submarine vehicles. The rotor behind the see-through sapphire-glass back is distinctly functional-looking and likewise alludes to the reliability of research submarines. The exclusive flagship of the new collection is limited to 50 watches and water-resistant to 10 bar.



The calendar movement shows the day, month and leap year in figures

AQUATIMER PERPETUAL CALENDAR DIGITAL DATE-MONTH

REFERENCE 3794



REF. IW379401

in 18-carat red gold and rubber-coated titanium
with black rubber strap and alligator leather inlay

Limited edition of 50 watches · Mechanical chronograph movement · Self-winding · IWC-manufactured 89801 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Mechanical external/internal rotating bezel with SafeDive system · Perpetual calendar · Large double-digit displays for both the date and month · Leap year display · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Luminescent elements on hands, dial and internal rotating bezel · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 10 bar · IWC bracelet quick-change system · Case height 19 mm · Diameter 49 mm



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70

80

90

100

110

120

130

140

150

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170

180

190

200

210

220

230

240

250

260

270

280

290

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310

320

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340

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360

370

380

390

400

410

420

AQUATIMER
DEEP THREE

SWISS MADE

IWC
SCHAFFHAUSEN

25

ACT. DEPTH

MAX. DEPTH



A DEPTH GAUGE FOR MAXIMUM SAFETY

————— The third generation of the IWC diver's watches with a mechanical depth gauge, the Aquatimer Deep Three in a titanium case, is a perfect example of watchmaking evolution: it is even safer, more functional and easier to use than ever before. Using three parameters – elapsed dive time, maximum depth reached during the dive and the seconds hand – the diver can plan any necessary decompression stops and remain at the necessary depth to conclude the dive safely and successfully. The Aquatimer Deep Three is water-resistant to 10 bar and offers a complete backup system for the dive computer. During a dive, the blue depth indicator moves against the white scale to show increasing or decreasing depth. The red maximum depth indicator remains at the greatest depth reached down to 50 metres. Another feature is the newly developed SafeDive system, which prevents accidental moving of the external rotating bezel. The titanium case makes the watch lighter than its predecessor in stainless steel. An elaborate relief engraving of a diver's helmet can be found on the back of the watch. The corrugated rubber strap adapts easily to the changing girth of the wearer's wrist.



AQUATIMER DEEP THREE

REFERENCE 3557



REF. IW355701
in titanium with black
rubber strap

Mechanical movement · Self-winding · 42-hour power reserve when fully wound · Date display · Central hacking seconds · Mechanical external/internal rotating bezel with SafeDive system · Mechanical depth gauge with flyback hand showing maximum depth to 50 m · Luminescent elements on hands, dial and internal rotating bezel · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Special back engraving · Water-resistant 10 bar · IWC bracelet quick-change system · Case height 16.5 mm · Diameter 46 mm

AT THE CUTTING EDGE DOWN TO 2000 METRES

————— The prototype was built in 1982 as a watch for mine clearance divers and designed by the legendary Ferdinand A. Porsche. The version for non-military use, the Ocean 2000, was the first watch with a pressure-resistance of 200 bar and was much coveted by collectors. Subsequent models, namely the GST Aquatimer and the Aquatimer Automatic 2000, were one thing above all: first-class diving instruments for professionals and ambitious amateurs. The new Aquatimer Automatic 2000 is a reliable backup system, even for the most exacting underwater missions. With its titanium case, the watch harks back to the origins of the reference models. The case has grown in size to 46 millimetres, making the dial more legible and leaving enough room for the robust IWC-manufactured 80110 movement. The chunky external rotating bezel can be adjusted easily even when wearing gloves and, as the name SafeDive system suggests, offers the diver a very high level of security. The rubber strap is available optionally in an XXL version and can be worn over a neoprene suit or a drysuit. For the designers, only one motif was thought appropriate for the engraving on the back of the cover: the classic diving helmet worn by deep-sea divers.



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SWISS
MADE

AQUATIMER
2000 METERS

IWC
SCHAFFHAUSEN

25

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AQUATIMER AUTOMATIC 2000

REFERENCE 3580



REF. IW358002

in titanium with black
rubber strap

Mechanical movement · Self-winding · IWC-manufactured 80110 calibre (80000-calibre family) · 44-hour power reserve when fully wound · Mechanical external/internal rotating bezel with SafeDive system · Date display · Central hacking seconds · Luminescent elements on hands, dial and internal rotating bezel · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 200 bar · IWC bracelet quick-change system · Case height 20.5 mm · Diameter 46 mm



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IWC
SCHAFFHAUSEN

AQUATIMER

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SWISS MADE

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HOMAGE TO THE MAN BEHIND THE THEORY OF EVOLUTION

————— “A man who dares to waste one hour of time has not discovered the value of life,” wrote the indefatigable naturalist Charles Darwin. It seems only fitting, therefore, that IWC should dedicate a watch of its own to the father of the theory of evolution. The choice of bronze for the case pays homage to the well-known ship, HMS Beagle, that carried him on his expedition to the Galapagos Islands. In those days, bronze – which is non-corrosive – was used for portholes, fittings and nautical instruments. In keeping with Darwin’s realization that “nothing is more constant than change”, and depending on the use to which it is put, bronze develops a patina in the course of time and darkens in colour, giving the Aquatimer Chronograph Edition “Expedition Charles Darwin” its own unmistakable character. The bronze tone recurs in the luminescent material on the hands, indices and 15-minute scale on the internal rotating bezel. Equipped with the IWC-manufactured 89365 movement, rubber-coated push-buttons, the SafeDive system and water-resistance to 30 bar, this special edition is ideal for expeditions in this day and age both above and under water. The engraving on the back is an expressive portrait of Darwin at the time when his revolutionary theory of evolution began to change our way of thinking for ever.



AQUATIMER CHRONOGRAPH EDITION “EXPEDITION CHARLES DARWIN”

REFERENCE 3795



REF. IW379503
in bronze with black
rubber strap

Mechanical chronograph movement · Self-winding · IWC-manufactured 89365 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Mechanical external/internal rotating bezel with SafeDive system · Date display · Stopwatch function with minutes and seconds · Small hacking seconds · Luminescent elements on hands, dial and internal rotating bezel · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 30 bar · IWC bracelet quick-change system · Case height 17 mm · Diameter 44 mm



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IWC
SCHAFFHAUSEN

AQUATIMER

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ROBUST DIVER'S WATCH FOR A DELICATE ECOSYSTEM

————— The matte black rubber coating on the stainless-steel case is a special feature of the Galapagos edition. It is applied in a complex vulcanization process and gives the watches an attractive look and feel of their own. For the first time ever, IWC presents two new Galapagos models simultaneously that are dedicated to the research and protection of the archipelago. The Aquatimer Chronograph Edition “Galapagos Islands” is an annual tribute to the partnership, established in 2009, with the Charles Darwin Foundation. Over 50 years, hundreds of scientists, students, teachers and volunteers from all over the world have been working on behalf of the Foundation at the Charles Darwin Research Station. The goal for the Galapagos scientific centre is to research the indigenous fauna and flora and to save the Galapagos, a World Heritage site, from destruction. The Station trains national park guides, organizes seminars, publishes the findings of its research and collects donations. With its Aquatimer Chronograph Edition “50 Years Science for Galapagos”, available in a limited edition of 500 watches, IWC is paying a tribute to the 50th jubilee of the Charles Darwin Research Station. Traditionally, part of the proceeds from sales of the Galapagos editions has always gone to the Charles Darwin Foundation. Both watches are fitted with the reliable IWC-manufactured 89365-calibre movement and come equipped with all the features that make the new Aquatimer Chronographs so attractive for expeditions above and below the surface: external/internal rotating bezel with SafeDive system, integrated flyback function, water-resistance to 30 bar and Super-LumiNova®* luminescent coating.



AQUATIMER CHRONOGRAPH EDITION “GALAPAGOS ISLANDS”

REFERENCE 3795



REF. IW379502
in rubber-coated stainless steel
with black rubber strap

Mechanical chronograph movement · Self-winding · IWC-manufactured 89365 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Mechanical external/internal rotating bezel with SafeDive system · Date display · Stopwatch function with minutes and seconds · Small hacking seconds · Luminescent elements on hands, dial and internal rotating bezel · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 30 bar · IWC bracelet quick-change system · Case height 17 mm · Diameter 44 mm

AQUATIMER CHRONOGRAPH EDITION “50 YEARS SCIENCE FOR GALAPAGOS”

REFERENCE 3795



REF. IW379504

in rubber-coated stainless steel
with black rubber strap

Limited edition of 500 watches in rubber-coated stainless steel · Mechanical chronograph movement · Self-winding · IWC-manufactured 89365 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Mechanical external/internal rotating bezel with SafeDive system · Date display · Stopwatch function with minutes and seconds · Small hacking seconds · Luminescent elements on hands, dial and internal rotating bezel · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 30 bar · IWC bracelet quick-change system · Case height 17 mm · Diameter 44 mm



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IWC
SCHAFFHAUSEN

AQUATIMER

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SWISS MADE



AN EXPEDITION WITH “CAPTAIN” COUSTEAU

————— Scuba diving pioneer, researcher and film-maker Jacques Cousteau once called the Galapagos Islands the world's last natural sanctuary. He travelled to the archipelago in the early 1970s for his legendary TV series “The Undersea World of Jacques Cousteau”, while his film “The Dragons of Galapagos” familiarized millions of viewers with the mysterious marine iguana. In 1973, he founded the Cousteau Society, a non-profit organization dedicated to protecting maritime life. IWC has been a partner of the Cousteau Society since 2004 and has supported the organization in its work to set up marine conservation zones. This is considered to be one of the most effective methods of protecting the fragile underwater world from over-fishing, poaching and environmental destruction. The Aquatimer Chronograph Edition “Expedition Jacques-Yves Cousteau” with its traditionally blue dial is already the sixth special edition to bear the name of the famous Frenchman. Identical to the Aquatimer Chronograph in construction, it boasts all the features of a diver's watch designed for expedition use. The engraving on the back of the cover shows “le Commandant” with his trademark red woollen beanie. Part of the proceeds from every sale goes directly to the Cousteau Society and helps fulfil the legacy of the committed environmentalist.



With his legendary TV series "The Undersea World of Jacques Cousteau", the researcher helped to boost the popularity of amateur scuba diving

AQUATIMER CHRONOGRAPH EDITION “EXPEDITION JACQUES-YVES COUSTEAU”

REFERENCE 3768



REF. IW376805
in stainless steel with black
rubber strap

Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Mechanical external/internal rotating bezel with SafeDive system · Date and day display · Stopwatch function with hours, minutes and seconds · Small hacking seconds · Luminescent elements on hands, dial and internal rotating bezel · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 30 bar · IWC bracelet quick-change system · Case height 17 mm · Diameter 44 mm



DIVER'S CHRONOGRAPH WITH DEPTH

————— Darwin stated that the species with the best chance of survival were those most willing to change. In this respect, the new Aquatimer Chronograph's chances of success are very promising. Because, compared with its predecessor, there are not only recognizable changes in appearance: the chronograph's technical features also represent a massive leap forward in the evolution of the IWC Aquatimer. The newly developed external/internal rotating bezel with a SafeDive system designed to prevent inadvertent changes of the dive time boosts the practical use of the diver's watch, as does the increase in water-resistance from 12 to 30 bar. The chronograph function handles single stop times and aggregate timing up to 12 hours. Thanks to the more reserved choice of colours and shape, the chronograph – which comes with a black or silver dial – cuts a fine figure for everyday wear: only the yellow seconds hand in the subdial at "9 o'clock" serves as a reminder of its more coloured past. The distinctly purist design of the dial recalls the look of the first Aquatimers in 1967 and gives it a more modern twist. With its slimmer external rotating bezel, the watch looks elegant despite the unchanged case diameter of 44 millimetres and the newly acquired cover on the sliding clutch system at "9 o'clock".

AQUATIMER CHRONOGRAPH

REFERENCE 3768



REF. IW376801
in stainless steel with black
rubber strap



REF. IW376802
in stainless steel with
stainless-steel bracelet

Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Mechanical external/internal rotating bezel with SafeDive system · Date and day display · Stopwatch function with hours, minutes and seconds · Small hacking seconds · Luminescent elements on hands, dial and internal rotating bezel · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 30 bar · IWC bracelet quick-change system · Case height 17 mm · Diameter 44 mm

AQUATIMER CHRONOGRAPH

REFERENCE 3768



REF. IW376803
in stainless steel with black
rubber strap



REF. IW376804
in stainless steel with
stainless-steel bracelet

Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Mechanical external/internal rotating bezel with SafeDive system · Date and day display · Stopwatch function with hours, minutes and seconds · Small hacking seconds · Luminescent elements on hands, dial and internal rotating bezel · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 30 bar · IWC bracelet quick-change system · Case height 17 mm · Diameter 44 mm

THE PURIST OF THE FAMILY

————— The rugged cliffs running along the coast, where the glittering silver Pacific crashes onto the jet-black igneous rock, is probably the most typical view of the Galapagos Islands. IWC's designers took much of their inspiration for the colour scheme of the new Aquatimer Automatic in stainless steel from this meeting of the elements. The basic model in the Aquatimer family comes with a black or silver-plated dial, complete with a matching black rubber strap or stainless-steel bracelet. In the version with the black dial, the dive-related displays are coated with luminescent green Super-LumiNova®*. The model with the silver-plated dial looks particularly elegant: the colour of the inlaid luminescent material is slightly more discreet, which does not detract from its legibility in the dark or adverse visibility conditions. The clear-cut design of the watch, which has just three hands, likewise makes underwater orientation faster and simpler. Like all the models in the new collection, the Aquatimer Automatic is equipped with the innovative external/internal rotating bezel featuring the SafeDive system. With a case measuring just 42 millimetres in diameter, the Aquatimer Automatic is the smallest model in the diver's watch family, and it's dial the most purist.





AQUATIMER AUTOMATIC

REFERENCE 3290



REF. IW329001
in stainless steel with black
rubber strap



REF. IW329002
in stainless steel with
stainless-steel bracelet

Mechanical movement · Self-winding · 42-hour power reserve when fully wound · Mechanical external/internal rotating bezel with SafeDive system · Date display · Central hacking seconds · Luminescent elements on hands, dial and internal rotating bezel · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 30 bar · IWC bracelet quick-change system · Case height 14 mm · Diameter 42 mm

AQUATIMER AUTOMATIC

REFERENCE 3290



REF. IW329003
in stainless steel with black
rubber strap



REF. IW329004
in stainless steel with
stainless-steel bracelet

Mechanical movement · Self-winding · 42-hour power reserve when fully wound · Mechanical external/internal rotating bezel with SafeDive system · Date display · Central hacking seconds · Luminescent elements on hands, dial and internal rotating bezel · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Water-resistant 30 bar · IWC bracelet quick-change system · Case height 14 mm · Diameter 42 mm





INGENIEUR



SINCE 1955



The first time the hallmarks of the watch family's design are featured together:
Ingenieur SL, Reference 1832, launched in 1976

In the early 1970s, a diver's helmet inspired freelance watch designer Gérald Genta to adopt a distinctly modernist, technical approach that was to revolutionize watch design. Instead of trying to conceal the screws or functional bores, he left them plain for all to see on the bezel. For IWC Schaffhausen Gérald Genta designed the legendary Ingenieur SL, Reference 1832, which was launched in 1976. Its eye-catching design stood for masculinity: it was rugged and sporty with an undeniably technical appeal, and has influenced the appearance of the Ingenieur watch family to this day.

The Ingenieur watch family's success story, incidentally, began back in the 1950s. An increasing number of technical appliances generated magnetic fields that adversely affected the accuracy of wristwatches. Engineers, in particular, often worked in areas subject to magnetic fields. By this time, IWC had perfected protection against magnetic fields to the point that creating a new watch class especially for this profession seemed like a good idea. And so, the Ingenieur was born.

The first Ingenieur, unveiled in 1955, was equipped with the first bidirectional automatic movement, developed by the then Technical Director, Albert Pellaton. The Pellaton system winds the movement when the rotor is revolving in either direction, making it significantly more efficient than conventional unidirectional mechanisms. In the late 1950s, the design of the movements used in the Ingenieur watches was successively improved. In the 1970s and 1980s, quartz watches reigned supreme on the world's watch markets. Even IWC equipped certain Ingenieur models with quartz-regulated oscillators. Technical masterpieces like the Ingenieur SL, which was just 10 millimetres thick, or the Ingenieur Automatic "500,000 A/m" with its possibly record-breaking level of protection against magnetic fields, were the outstanding achievements of this period in the Ingenieur's history, as was the introduction of titanium for cases.

In 2005 the watch family celebrated a stirring comeback. The Ingenieur Automatic assumed the cool, engineering-inspired aura of Gérald Genta's Ingenieur SL. The IWC-manufactured

IWC HAS MAINTAINED ITS POSITION AS ONE OF THE LEADERS IN TITANIUM SURFACE FINISHING TO THIS DAY

80110 calibre with its Pellaton winding system also featured an integrated shock-absorption system. To mark the partnership between IWC and Mercedes AMG, IWC unveiled two Ingenieur models in titanium. They underscore the values shared by the technology specialists in Schaffhausen and Affalterbach: precision, performance and engineering expertise.

The completely redesigned Ingenieur watch collection for 2013 centred entirely on the cooperation with the MERCEDES AMG PETRONAS Formula One™ Team. The technological highlight was the Ingenieur Constant-Force Tourbillon with its patented constant-force mechanism. Another example of exceptional design was the quick-action switch found in the Ingenieur Perpetual Calendar Digital Date-Month, which moves up to five display discs simultaneously. Its case is made of titanium aluminide, which, like carbon, ceramic and titanium, was inspired by the range of materials used in FORMULA ONE. These innovative materials are used in the current Ingenieur line, which is easily recognized by the ceramic screw heads in the bezel. In appearance, the classic design line with the stainless-steel case and characteristic drill holes are in line with the tradition of the Ingenieur SL launched in 1976. Elegant, functional and technologically perfect, it distils all that is best from almost 60 years of performance engineering in the Ingenieur family. New this year are the Ingenieur Automatic Carbon Performance Ceramic and the Ingenieur Dual Time in stainless steel with its additional display for a second local time.



IWC
SCHAFFHAUSEN

SWISS

A POWERFUL DRIVE TO DELIVER MORE TORQUE

————— With the spectacular Ingenieur Constant-Force Tourbillon in its platinum and ceramic case, IWC now leads the field in the constructors' championship of haute horlogerie. This precision machine's patented constant-force mechanism is integrated in a tourbillon and ensures that the amplitude of the balance remains virtually constant. It guarantees an extremely precise rate over a period of at least 48 hours. The 94800-calibre basic movement features two barrels, which provide the energy for the higher torque required to drive the constant-force tourbillon. It also provides the moon phase module with the necessary power. The double moon display depicts the surface of the earth's natural satellite so realistically that even tiny craters can be recognized. The countdown scale shows the number of days remaining until the next full moon. The power reserve display between "4" and "5 o'clock" indicates the energy remaining in the mainspring. The design on the movement side, visible through the transparent sapphire-glass back, was inspired by a sports car's engine block. Perforations provide a clear view of the intermeshing gears: performance engineering for purists.



Precision assembly: tourbillon with patented constant-force mechanism

INGENIEUR CONSTANT-FORCE TOURBILLON

REFERENCE 5900



REF. IW590001

in platinum and ceramic with black rubber strap
and black alligator leather inlay

Limited edition of 50 watches · Mechanical movement · Hand-wound · IWC-manufactured 94800 calibre (94000-calibre family) · 96-hour power reserve when fully wound · Power reserve display · Perpetual moon phase display · Double moon phases for the northern and southern hemispheres · Countdown display showing phases until next full moon · Tourbillon with integrated constant-force mechanism · Screw-in crown · Sapphire glass, flat, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 12 bar · Case height 14 mm · Diameter 46 mm

TITANIUM MEETS ALUMINIUM

————— With the Ingenieur Perpetual Calendar Digital Date-Month, IWC presented a watch case made of titanium aluminide and reaffirmed its reputation as the materials pioneer in the watchmaking industry. Titanium aluminide is used widely in motorsport: the alloy is lighter and more robust than pure titanium. The black parts of the case are made of zirconium oxide, yet another material typically associated with FORMULA ONE. Modern racing cars have a boost button designed to provide maximum thrust when needed. In the case of the perpetual calendar with its digital date and leap year display, this job is handled by IWC's revolutionary quick-action switch. Every night, when the date display advances, this sophisticated mechanism siphons off a little energy, stores it and then discharges it precisely at the end of the month to rotate the display discs. At the end of the year, no fewer than five display discs need to be advanced synchronously. On New Year's Eve, thanks to the three semi-transparent totalizers, the entire dial is set in motion. It is a spectacle of technical brilliance that no one who appreciates complex mechanical systems will want to miss. The see-through sapphire-glass back provides an unimpeded view of the IWC-manufactured 89802 calibre, whose rotor resembles the spokes on a light alloy wheel rim.



INGENIEUR PERPETUAL CALENDAR DIGITAL DATE-MONTH

REFERENCE 3792



REF. IW379201

in titanium aluminide with black rubber strap
and black alligator leather inlay

Mechanical chronograph movement · Self-winding · IWC-manufactured 89802 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Perpetual calendar · Large double-digit displays for both the date and month · Leap year display · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Screw-in crown · Sapphire glass, flat, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 12 bar · Case height 17 mm · Diameter 46 mm



2345678

INTERNATIONAL WATCH CO.

INGENIEUR

PERPETUAL CALENDAR

POWER - RESERVE

SIXTY-EIGHT HOURS

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FIVE (5) POS.

SWISS MADE 3530188
INTERNATIONAL WATCH CO.
FIFTY ONE
1511 JEWELS

IWC

IWC

A CASE MADE OF HIGH-TECH FIBRE

————— To mark its cooperation with the MERCEDES AMG PETRONAS Formula One™ Team, IWC presented a high-tech model with a carbon-fibre case and – this year, for the first time ever – a mirror-polished ceramic bezel: the Ingenieur Automatic Carbon Performance Ceramic. The middle section of the case, which is firmly secured by five screws, is manufactured using the same principle as the monocoque of a racing car: the fibre matting is soaked in epoxy resin and shaped to the desired form before being baked at a high temperature and pressure. The resin is then cured. The dial too is made of carbon fibre. It goes perfectly with the authentic FORMULA ONE look and gives the watch a profiled, three-dimensional surface. Carbon is only one-fifth the weight of steel, but does not have its resistance to impacts or scratching. For other parts of the case, IWC designers also took inspiration from the materials used in motorsport's leading discipline. Ceramic for the bezel, screw heads, crown and crown protection, titanium for the screws and case-back ring, and rubber for the strap with calfskin inlay. The strap is stitched with green nylon thread reminiscent of the stripes on the outer walls of tyres used on wet circuits. Thanks to its integrated shock-absorption system, the IWC-manufactured 80110-calibre movement is unaffected by extreme acceleration as well as sharp braking manoeuvres and vibrations, making it the perfect watch for racing drivers. Perfectly in keeping with the design of the rotor, which is shaped like pistons.



INGENIEUR AUTOMATIC CARBON PERFORMANCE CERAMIC

REFERENCE 3224



REF. IW322404

in carbon with black rubber strap
and black calfskin inlay

Limited edition of 1,000 watches with green nylon thread · Mechanical movement · Pellaton automatic winding · IWC-manufactured 80110 calibre (80000-calibre family) · 44-hour power reserve when fully wound · Integrated shock-absorption system · Date display with crown-activated rapid advance · Central hacking seconds · Screw-in crown · Sapphire glass, flat, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 12 bar · Case height 14.5 mm · Diameter 46 mm



12 BAR • IWC • INGENIEUR • CARBON PERFORMANCE

∞

TWENTY-EIGHT

INTL. WATCH CO.

SWISS MADE

2345678 • ONE OUT OF 1000



HIGH TECHNOLOGY AND CRAFTSMANSHIP

————— The Ingenieur Automatic AMG Black Series Ceramic boasts the same outstanding features as an AMG Mercedes: exclusiveness and high performance, combined with everyday practicality, reliability and quality. As a tribute to its namesake, the designers of the Ingenieur Automatic AMG Black Series Ceramic, Reference 3225, have used the colour black to its best and most elegant advantage. Some of the surfaces have a high-gloss, piano lacquer-like finish, while some are silky matt. This intriguing interplay makes the timepiece, which is also available with a brown dial, a conspicuous eye-catcher. The case, which is water-resistant to 12 bar, the bezel, the case-back ring, the crown and its solid protective shoulders are all made of black zirconium oxide inspired by the high-performance ceramic disc brakes found in premium AMG vehicles. The striking screws in the bezel firmly secure the front glass, case and sapphire-glass back, and are an unmistakable reference to the technical design cues of Gérald Genta's legendary Ingenieur SL. The watch is equipped with the in-house 80110 calibre, which has an integrated shock-absorption system and is one of the most rugged movements made by IWC. A glance through the transparent sapphire-glass back reveals a precision, high-performance mechanism with a blackened rotor.



INGENIEUR AUTOMATIC AMG BLACK SERIES CERAMIC

REFERENCE 3225



REF. IW322503

in ceramic with black rubber strap
and black calfskin inlay

Mechanical movement · Pellaton automatic winding · IWC-manufactured 80110 calibre (80000-calibre family) · 44-hour power reserve when fully wound · Integrated shock-absorption system · Date display with crown-activated rapid advance · Central hacking seconds · Screw-in crown · Sapphire glass, flat, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 12 bar · Case height 14.5 mm · Diameter 46 mm

INGENIEUR AUTOMATIC AMG BLACK SERIES CERAMIC

REFERENCE 3225



REF. IW322504

in ceramic with black rubber strap
and brown alligator leather inlay

Mechanical movement · Pellaton automatic winding · IWC-manufactured 80110 calibre (80000-calibre family) · 44-hour power reserve when fully wound · Integrated shock-absorption system · Date display with crown-activated rapid advance · Central hacking seconds · Screw-in crown · Sapphire glass, flat, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant 12 bar · Case height 14.5 mm · Diameter 46 mm

A DOUBLE CHAMPION IN TITANIUM

————— In FORMULA ONE, lap times provide important information about various technical parameters and the progress of a race. During qualifying, the driver with the fastest lap time is awarded pole position. So it was clear that the Ingenieur collection, which is deeply influenced by the cooperation between IWC and the MERCEDES AMG PETRONAS Formula One™ Team, should feature a double chronograph. The split-seconds hand can be stopped to record intermediate times while the stopwatch hand continues to run. If the push-button at “10 o’clock” is pressed a second time, the split-seconds and stopwatch hands are resynchronized. This allows the user to record as many lap times as he chooses. For the Ingenieur Double Chronograph Titanium with the 79420 calibre, IWC’s designers took their inspiration from materials typically used in FORMULA ONE: the casing ring is made of titanium and the striking screw heads in the bezel are made of ceramic. The crown, the crown protection and the push-buttons are lavishly coated with black rubber. The totalizers, which closely resemble tachometers, give the watch a consistent, instrument-inspired look. The watch is available with a silver-plated or black dial and normally worn with a rubber strap.





In a rattrapante mechanism, the split-seconds hand starts simultaneously with the stopwatch hand

INGENIEUR DOUBLE CHRONOGRAPH TITANIUM

REFERENCE 3865



REF. IW386501
in titanium with black
rubber strap



REF. IW386503
in titanium with black
rubber strap

Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Date and day display · Stopwatch function with hours, minutes and seconds · Small hacking seconds · Split-seconds hand for intermediate timing · Screw-in crown · Sapphire glass, flat, antireflective coating on both sides · Water-resistant 12 bar · Case height 16 mm · Diameter 45 mm



TACHYMETER

BASE 1000 m

IWC
SCHAFFHAUSEN

INGENIEUR

SWISS

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IN ITS ELEMENT ON THE CIRCUIT

————— In 2013 IWC Schaffhausen embarked on the FORMULA ONE season as the Official Engineering Partner of the MERCEDES AMG PETRONAS Formula One™ Team. The designers, technicians and engineers on both sides share a common passion for precision and performance engineering. To mark this cooperation, IWC rolled out in 2013 the Ingenieur Chronograph Racer in stainless steel with an engraving of a FORMULA ONE racing car on the case back. The rugged timepiece has been equipped with one of the most efficient movements manufactured entirely by IWC, the 89361 calibre. It displays stopped times in hours and minutes on a totalizer, while times up to one minute are measured by the central stopwatch hand. It also features a tachymeter scale that shows the average speed covered over a distance of 1,000 metres. Thanks to the flyback function, pressing the reset button brings the stopwatch hand back to zero and immediately restarts timing, making it perfect for recording pit-stop times. The chronograph is available with a slate-coloured dial and black totalizers or a silver-plated dial with silver-plated totalizers and blue hands. The red “60” in the chapter ring was inspired by the digital display on the steering wheel of the MERCEDES AMG PETRONAS Formula One™ Team racing car. Both watches are available with a black rubber strap and alligator leather inlay, as well as a stainless-steel bracelet.



In the double-pawl winding system, four pawls – two double pawls – transfer the push-and-pull motion to the barrel

INGENIEUR CHRONOGRAPH RACER

REFERENCE 3785



REF. IW378507

in stainless steel with black rubber strap
and black alligator leather inlay



REF. IW378508

in stainless steel with
stainless-steel bracelet



BACK VIEW

for both References
(shown here is IW378507)

Mechanical chronograph movement · Self-winding · IWC-manufactured 89361 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display with crown-activated rapid advance · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Screw-in crown · Sapphire glass, flat, antireflective coating on both sides · Water-resistant 12 bar · Case height 14.5 mm · Diameter 45 mm



TACHYMETER

BASE 1000m

INGENIEUR

IWC
SCHAFFHAUSEN

25

INGENIEUR CHRONOGRAPH RACER

REFERENCE 3785



REF. IW378509

in stainless steel with black rubber strap
and blue alligator leather inlay



REF. IW378510

in stainless steel with
stainless-steel bracelet

Mechanical chronograph movement · Self-winding · IWC-manufactured 89361 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display with crown-activated rapid advance · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Screw-in crown · Sapphire glass, flat, antireflective coating on both sides · Water-resistant 12 bar · Case height 14.5 mm · Diameter 45 mm

HOMAGE TO A LEGEND

With the Ingenieur Chronograph Silberpfeil, IWC has breathed fresh life into the legend of the historic Mercedes-Benz racing car. One characteristic feature is the dial with its circular graining in silver or brown. This is a tribute to the mythical status of the Silver Arrow W25, whose dashboard had a steel surround with circular-grain decoration. The efficient double-pawl winding in the IWC-manufactured 89361 calibre is one of the most outstanding achievements of haute horlogerie currently on offer. The upper totalizer makes it possible to read off stopped hours and minutes as simply as the time on a sub-dial. Stopped times up to one minute are measured by the central seconds hand. Used in combination with the tachymeter

scale, this provides the speed at which a reference distance of 1,000 metres has been completed. Another very practical feature for anyone who frequents the world's racing circuits is the flyback function for measuring pit-stop times. The chronograph features a black rubber strap with a brown alligator leather inlay. This, too, was inspired by the world of motorsport in the 1930s, when thick leather belts were omnipresent on motorcar bonnets. An attractive engraving of a stylized Silver Arrow racing car can be found on the case back. Between 1934 and 1939, Mercedes-Benz chalked up countless Grands Prix and other championship victories with its Silver Arrows. Both dial versions are available in limited editions of 1,000 watches.



In the 89361 calibre, dead spots during winding are eliminated and efficiency is increased

INGENIEUR CHRONOGRAPH SILBERPFEIL

REFERENCE 3785



REF. IW378505

in stainless steel with black rubber strap
and brown alligator leather inlay

Limited edition of 1,000 watches each · Mechanical chronograph movement · Self-winding · IWC-manufactured 89361 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display with crown-activated rapid advance · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Screw-in crown · Sapphire glass, flat, antireflective coating on both sides · Water-resistant 12 bar · Case height 14.5 mm · Diameter 45 mm



INGENIEUR CHRONOGRAPH SILBERPFEIL

REFERENCE 3785



REF. IW378511

in stainless steel with black rubber strap
and brown alligator leather inlay

Limited edition of 1,000 watches each · Mechanical chronograph movement · Self-winding · IWC-manufactured 89361 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display with crown-activated rapid advance · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Screw-in crown · Sapphire glass, flat, antireflective coating on both sides · Water-resistant 12 bar · Case height 14.5 mm · Diameter 45 mm



IWC
SCHAFFHAUSEN

INGENIEUR

SWISS
MADE

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6

AT HOME AROUND THE WORLD

————— Melbourne, Abu Dhabi, Monza, São Paulo, Kuala Lumpur: 20 times a year, the international FORMULA ONE cavalcade – and with it IWC’s partner, the MERCEDES AMG PETRONAS Formula One™ Team – moves from one racing circuit to the next, at locations all over the planet. The Ingenieur Dual Time takes the hard work out of keeping track while moving from one time zone to another by showing a second local time of the owner’s choice. This way, people who move rapidly from one continent or time zone to the next and who communicate worldwide will always retain an overview. The date window on the black or white dial shows current local time. This can be advanced or moved back in one-hour steps via the crown, even beyond the International Date Line. The hand with the white triangle indicates the second time likewise advancing on the outer 24-hour ring, meaning that the wearer’s home time or the local time of a business partner is always visible. To make it easier to differentiate between day and night, the top half, from “6 p.m.” to “6 a.m.”, is darker than the lower half. The Ingenieur Dual Time is available with a stainless-steel bracelet.

INGENIEUR DUAL TIME

REFERENCE 3244



REF. IW324402
in stainless steel with
stainless-steel bracelet



REF. IW324404
in stainless steel with
stainless-steel bracelet

Mechanical movement · Self-winding · 42-hour power reserve when fully wound · Hour hand adjustable in one-hour steps
(TZC = Time Zone Corrector) · 24-hour display (second local time) · Date display · Central hacking seconds ·
Screw-in crown · Sapphire glass, flat, antireflective coating on both sides · Water-resistant 12 bar · Case height 13.5 mm · Diameter 43 mm



CLASSIC MEMBERS OF THE WATCH FAMILY

—————With the moderate dimensions of the case, the Ingenieur Automatic in stainless steel is well suited to a slimmer wrist. Despite its relatively modest height of 10 millimetres, the watch still comes with a soft-iron inner cage for maximum protection against magnetic fields and water-resistance to 12 bar. The Ingenieur Automatic models consistently reflect the design cues of this traditional watch family. The main reason for this is the equally elegant and functional design of a watch with its three hands. The conspicuous bores in the bezel were the brainchild of watch designer Gérald Genta. In the case of the legendary Ingenieur SL unveiled in 1976, he placed the five functional holes directly on the bezel. Originally, they served to hold it in position. Since then, the bores and/or screw heads together with the stylized bolt of lightning have become the hallmarks of the Ingenieur family. Like the solid metal hands, the rugged-looking crown protection underscores the impression that here you are dealing with a genuine strongbox. The classic Ingenieur is supplied with a silver-plated or black dial. The model with a silver-plated dial has rhodium- or rose-gold-plated hands and appliqués, while the rhodium-plated hands and appliqués attractively contrast with the black dial.



IWC
SCHAFFHAUSEN

INGENIEUR

SWISS
MADE

25



IWC
SCHAFFHAUSEN

25

INGENIEUR

SWISS MADE

INGENIEUR AUTOMATIC

REFERENCE 3239



REF. IW323906
in stainless steel with
stainless-steel bracelet



REF. IW323904
in stainless steel with
stainless-steel bracelet



REF. IW323902
in stainless steel with
stainless-steel bracelet

Mechanical movement · Self-winding · 42-hour power reserve when fully wound · Date display with crown-activated rapid advance · Central hacking seconds · Screw-in crown · Soft-iron inner case for protection against magnetic fields · Sapphire glass, flat, antireflective coating on both sides · Water-resistant 12 bar · Case height 10 mm · Diameter 40 mm



PILOT'S WATCHES



SINCE 1936



The Mark 11 is the best known of all IWC Pilot's
Watches; here the original model from 1948

During the pioneering days of aviation, most pilots had to navigate with the help of pocket watches. Wristwatches made especially for aviators were a rare occurrence. By contrast, the first Special Pilot's Watch, built by IWC in 1936, came with a rugged glass, a rotating bezel with an arrowhead index for keeping track of short periods of time and an antimagnetic escapement together with high-contrast, luminescent hands and numerals.

From 1940, the Schaffhausen-based manufacturer started producing the Big Pilot's Watch 52 T. S. C. in accordance with military specifications for a navigation or deck watch. It was the most voluminous wristwatch ever made by IWC. With its extremely reductionist design, the dial was clearly organized and took inspiration from the cockpit instrumentation of contemporary aircrafts. The instrument look was the inspiration for IWC's design of the Mark 11, produced from 1948 onwards. The best known of the Pilot's Watches from IWC, it was originally built for the Royal Air Force and has been in service for more than 30 years.

In 1988, the launch of the Pilot's Watch Chronograph upheld the Pilot's Watch tradition. During the 1990s, IWC continued its development of the watch line. Following hot on the heels of automatic winding, complications such as the split-seconds mechanism and UTC (Universal Time Coordinated) found their way into the Pilot's Watch family. In 2002, IWC re-established its Big Pilot's Watch tradition when it unveiled an enormous timepiece with a 7-day movement and Pellaton automatic winding, the design of which leaned unmistakably on its even larger forebear launched in 1940. A year later saw the introduction of a Pilot's Watch series named after the legendary British aircraft, the Spitfire. In its day, the Spitfire was a masterpiece of technology and timeless elegance and became the model on which the eponymous IWC watch line was based.

Since 2006, IWC has unveiled a series of Pilot's Watch special editions in honour of the outstanding books and life's work of the French author and pilot Antoine de Saint-Exupéry. No other writer succeeded in describing the excitement of those

THE IWC PILOT'S WATCH COLLECTION CONTINUES TO IMPRESS WITH OUTSTANDING TECHNOLOGY AND ITS UNMISTAKABLE INSTRUMENT-INSPIRED DESIGN

pioneering days of aviation more vividly than Saint-Exupéry. His fiction addresses universal values such as friendship and humanity; his most famous works "The Little Prince", "Night Flight" and "Southern Mail" made him immortal. To honour this upstanding humanist, IWC has manufactured the Pilot's Watch Chronograph Edition Antoine de Saint Exupéry in 18 carat red gold as a limited edition of 500 pieces and in stainless steel.

In 2007, for the first time, a watch bearing the name TOP GUN joined the IWC Pilot's Watch squadron. The name comes from a special training course offered by the United States Navy Fighter Weapons School, the "Strike Fighter Tactics Instructor", better known by the legendary accolade "Top Gun". In 2012, named by IWC Schaffhausen as the year of the Pilot's Watches, the TOP GUN collection established itself as an independent line in the IWC Pilot's Watch family with no fewer than five new models. This was the first time two of them sported authentic military-style design cues as well as haute-horlogerie-inspired technological features. Since 2012, the Spitfire fleet too has boasted an updated design as well as new features and movements designed and manufactured in IWC's own workshops. The IWC Pilot's Watch Classics collection continues to impress with outstanding technology and its unmistakable instrument-inspired design.

THE HISTORIC LEGACY OF THE DECK WATCHES

————— The Big Pilot's Watch TOP GUN Miramar and the Pilot's Watch Chronograph TOP GUN Miramar are a tribute to the birthplace of the Top Gun legend, the pilots' school of the US Marines in Miramar, California. It was from here, between 1969 and 1996, that the reputation of the intrepid elite pilots spread all over the world. The unusual division of the dial into an external chapter ring and an inner hour circle found in both timepieces recalls the deck watches of the 1930s and 1940s, and thus the historical legacy of IWC's Pilot's Watches. Likewise inspired by military-style design are the shimmering metallic grey of the ceramic case, the beige hands and chapter ring, as well as the green textile strap. The in-house 51111 calibre found in the Big Pilot's Watch TOP GUN Miramar – the largest automatic movement made by IWC – has a convenient 7-day power reserve. The Pilot's Watch Chronograph TOP GUN Miramar with its flyback function owes its 68-hour power reserve to the IWC-manufactured 89365 movement. A soft-iron inner case protects the chronograph's precision movement against magnetism. An elaborate Top Gun engraving embellishes the backs of both Miramar models.



BIG PILOT'S WATCH TOP GUN MIRAMAR

REFERENCE 5019



REF. IW501902

in ceramic with green
textile strap

Mechanical movement · Pellaton automatic winding · IWC-manufactured 51111 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Date display · Central hacking seconds · Glucydur® beryllium alloy balance with high-precision adjustment cam on balance arms · Breguet spring · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Water-resistant 6 bar · Case height 15 mm · Diameter 48 mm

PILOT'S WATCH CHRONOGRAPH TOP GUN MIRAMAR

REFERENCE 3880



REF. IW388002

in ceramic with green
textile strap

Mechanical chronograph movement · Self-winding · IWC-manufactured 89365 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display · Stopwatch function with minutes and seconds · Flyback function · Small hacking seconds · Soft-iron inner case for protection against magnetic fields · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Water-resistant 6 bar · Case height 16.5 mm · Diameter 46 mm



PERPETUAL

CALENDAR

DAYS

IWC
SCHAFFHAUSEN

SUN
MON
TUE
WED
THU
FRI
SAT

JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC

2014

PRECISION INSTRUMENTS WITH COCKPIT-STYLE DESIGN

————— The Big Pilot's Watch Perpetual Calendar TOP GUN, the Big Pilot's Watch TOP GUN and the Pilot's Watch Chronograph TOP GUN combine the black-and-white instrument look of the classic Pilot's Watches with the sporty design of the TOP GUN line. The cases made of black zirconium oxide together with the crown and push-buttons in titanium underscore IWC Schaffhausen's pioneering role as one of the first companies in the watchmaking industry to use these materials. In the Big Pilot's Watch Perpetual Calendar TOP GUN, the IWC-manufactured 51614 calibre with a 7-day power reserve drives a plethora of watchmaking complications. The perpetual calendar with displays for the date, day, month, year in four digits and perpetual moon phase takes into account all the leap years in the Gregorian calendar until 2100. The in-house 51111 calibre found in the Big Pilot's Watch TOP GUN likewise builds up a power reserve of 7 days after just 1960 complete revolutions of the rotor or after being fully hand-wound. No Pilot's Watch collection would be complete without a chronograph with down-to-the-second precision. Among the TOP GUN models in traditional cockpit design, this role falls to the Pilot's Watch Chronograph TOP GUN. As only fitting, it comes equipped with an IWC-manufactured movement in the form of the further improved 89365-chronograph calibre. A soft-iron inner cage protects the precision movement against magnetism.



BIG PILOT'S WATCH PERPETUAL CALENDAR TOP GUN

REFERENCE 5029



REF. IW502902

in ceramic with black
soft strap

Mechanical movement · Pellaton automatic winding · IWC-manufactured 51614 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Perpetual calendar with displays for the date, day and month · Perpetual moon phase display · Double moon phases for the northern and southern hemispheres · Small hacking seconds · Glucydur® beryllium alloy balance with high-precision adjustment cam on balance arms · Breguet spring · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Water-resistant 6 bar · Case height 16 mm · Diameter 48 mm

BIG PILOT'S WATCH TOP GUN

REFERENCE 5019



REF. IW501901
in ceramic with black
soft strap

Mechanical movement · Pellaton automatic winding · IWC-manufactured 51111 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Date display · Central hacking seconds · Glucydur® beryllium alloy balance with high-precision adjustment cam on balance arms · Breguet spring · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Water-resistant 6 bar · Case height 15 mm · Diameter 48 mm

PILOT'S WATCH CHRONOGRAPH TOP GUN

REFERENCE 3880



REF. IW388007

in ceramic with black
soft strap

Mechanical chronograph movement · Self-winding · IWC-manufactured 89365 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display · Stopwatch function with minutes and seconds · Flyback function · Small hacking seconds · Soft-iron inner case for protection against magnetic fields · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Water-resistant 6 bar · Case height 16.5 mm · Diameter 46 mm



BIG PREMIERE FOR THE SPITFIRE

————— In 2012 the Spitfire Perpetual Calendar Digital Date-Month was the first IWC Pilot's Watch to show the date and month digitally in large numerals and was inspired by cockpit instrumentation like the altimeter. The 4-year leap year cycle also has a digital display. A specially designed quick-action switch generates the energy needed to advance the numeral discs. Every night, when the date display moves forward, it taps a little of the energy, stores it and then discharges it precisely at the end of the month or year. The perpetual calendar can be set easily using the crown. It will not require intervention by a watchmaker until 2100, a year that breaks with the conventional 4-year cycle and will not be a leap year. Hours and minutes recorded by the stopwatch can be read off the totalizer at 12 o'clock as easily as reading the time, while the central hand shows elapsed seconds. Thanks to the integrated flyback function, the running stopwatch hand can be reset to zero and immediately starts recording another time. The dynamic interplay of polished and satin-finished surfaces on the 18-carat red gold case gives the watch a premium-quality allure. The shimmering, slate-coloured, metallic dial with its sun-pattern finish provides an enchanting contrast to the warm gold tone and the brown of the alligator leather strap. The rotor takes the form of an elegant Spitfire silhouette and can be seen through the sapphire-glass back.



IWC · SPITFIRE · CHRONOGRAPH PERPETUAL CALENDAR

SIXTY-EIGHT HOURS
INTERNATIONAL

POWER-RESERVE

15.157.310 (32) JEWELS

IWC AIR/50

2345678

SPITFIRE PERPETUAL CALENDAR DIGITAL DATE-MONTH

REFERENCE 3791



REF. IW379105

in 18-carat red gold with brown
alligator leather strap

Mechanical chronograph movement · Self-winding · IWC-manufactured 89801 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Perpetual calendar · Large double-digit displays for both the date and month · Leap year display · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · See-through sapphire-glass back · Water-resistant 6 bar · Case height 17.5 mm · Diameter 46 mm

SPITFIRE WITH A NEW FACE

Classic elegance and technological development are the hallmarks of the Spitfire Chronograph in 18-carat red gold and stainless steel. The surfaces of the case are worked until the watch is left with a luxurious highly polished or silky-matte finish. When the watch is tilted, the incident light falling onto the sun-pattern finish of the slate-coloured dial moves in circles. The dark colour of the dial and the date display in the form of an altimeter underscore the Spitfire's classic instrument look. In 2012, the Spitfire Chronograph was equipped for the first time with the IWC-manufactured 89365 calibre. The subdial

at "12 o'clock" shows the recorded minutes, while the seconds can be read off from the central hand. Thanks to the flyback function, an ongoing time measurement can be "deleted" without an intermediate stop and start. The red gold version has a brown alligator leather strap with a pin buckle. The stainless-steel model is available either with a brown alligator leather strap with a folding clasp or with the stainless-steel bracelet with a fine-adjustment clasp that was developed in 2012 and permits the length to be changed as required.



SPITFIRE CHRONOGRAPH

REFERENCE 3878



REF. IW387803
in 18-carat red gold with brown
alligator leather strap



REF. IW387802
in stainless steel with brown
alligator leather strap



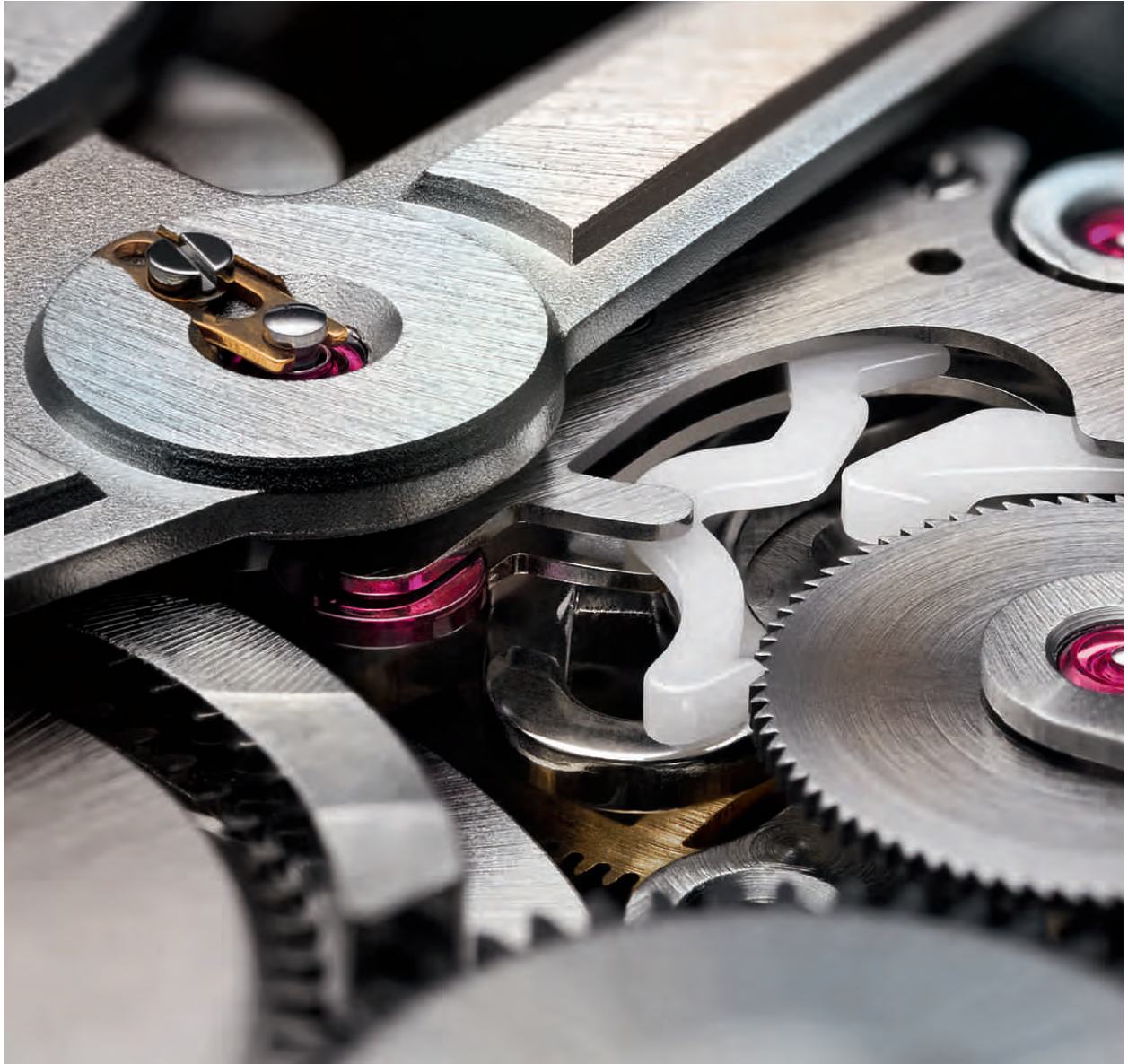
REF. IW387804
in stainless steel with
stainless-steel bracelet

Mechanical chronograph movement · Self-winding · IWC-manufactured 89365 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display · Stopwatch function with minutes and seconds · Flyback function · Small hacking seconds · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Special back engraving · Water-resistant 6 bar · Case height 15.5 mm · Diameter 43 mm

A CLASSIC ORIGINAL

————— The Big Pilot's Watch from 1940 has significantly influenced the appearance of the current classic pilot's watches. Even now, over 70 years on, the latest model adds another chapter to the success story of this extraordinary watch. Its IWC-manufactured 51111-calibre movement – the largest automatic movement ever made by IWC – unites some of watchmaking's greatest achievements. Within no time at all, the spring-mounted rotor and Pellaton pawl-winding system build up a power reserve of over 7 days, before the movement is mechanically brought to a halt by a complex train in the power reserve after exactly 168 hours. Stopping the movement before the tension in the spring is exhausted eliminates the danger of diminishing torque in the mainspring, ensuring the same level of accuracy the whole time the watch is running. The power reserve display at "3 o'clock" provides a reliable indication of the time remaining until the movement comes to a stop. The Big Pilot's Watch has a date display at "6 o'clock" and the central seconds essential in any watch used for flying. The 46-millimetre case encloses a soft-iron inner cage that protects the movement against magnetic fields. The current stainless-steel version is rounded off with an alligator leather strap. The design of the folding clasp, which was introduced in 2012, is more striking and commensurate with the massive diameter of the case.





IWC's largest automatic movement has highly efficient Pellaton winding with wear-resistant ceramic pawls

BIG PILOT'S WATCH

REFERENCE 5009



REF. IW500901

in stainless steel with black
alligator leather strap

Mechanical movement · Pellaton automatic winding · IWC-manufactured 51111 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Date display · Central hacking seconds · Glucydur® beryllium alloy balance with high-precision adjustment cam on balance arms · Breguet spring · Soft-iron inner case for protection against magnetic fields · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Water-resistant 6 bar · Case height 16 mm · Diameter 46 mm

COCKPIT-STYLE DESIGN IN 46 MILLIMETRES

The Pilot's Watch Double Chronograph features the classic cockpit-style design with a variety of coloured highlights. The dial takes inspiration from the cockpit instrumentation of the legendary Ju 52 from the 1930s. The displays are generously sized and clearly arranged. The brilliant white hands and indices on the matte-black background have a luminescent coating and guarantee optimum legibility by day or night. Apart from this, the altimeter-like date display underscores the instrument look. Three signal-red elements provide optical highlights: the small red permanent seconds hand that shows the watch is running; the red tip of the chronograph sec-

onds hand; and the small triangle for the triple date display. A particularly conspicuous feature on the double chronograph is the third push-button at "10 o'clock". This can be used to stop the split-seconds hand at any time and to synchronize it again with the chronograph seconds hand, making it ideal for timing laps or intermediate times. With its soft-iron inner case for protection against magnetic fields and a sapphire glass secured against drops in pressure, the watch has all the credentials of a watch designed for flying. The Pilot's Watch Double Chronograph is available with a black alligator leather strap with a folding clasp.



PILOT'S WATCH DOUBLE CHRONOGRAPH

REFERENCE 3778



REF. IW377801
in stainless steel with black
alligator leather strap

Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Date and day display · Stopwatch function with hours, minutes and seconds · Small hacking seconds · Split-seconds hand for intermediate timing · Soft-iron inner case for protection against magnetic fields · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Water-resistant 6 bar · Case height 17.5 mm · Diameter 46 mm

A CHRONOGRAPH WITH AN INSTRUMENT LOOK

Precision, functionality and reliability: these are the qualities that set the Pilot's Watch Chronograph apart. Compared with its predecessor, the stainless-steel case, which is water-resistant to 6 bar, has grown by 1 millimetre. The dial design, too, has been slightly modified: the date window at "3 o'clock" now leans on the altimeter found in a cockpit and takes the form of a vertical triple date display. This modification gives an even more emphatic instrument look to the chronograph, which, thanks to the clearly structured chapter ring on the matte-black dial, the propeller-like hands and the triangular index at "12 o'clock", leaves no doubt as to its Pilot's Watch

DNA. The hands are completely coated with luminescent material and guarantee excellent legibility even when visibility is poor. Thanks to the robust 79320-calibre chronograph movement, it is possible to record single and aggregate times of up to 12 hours. With its soft-iron inner case, it is optimally shielded against the influence of magnetic fields. The Pilot's Watch Chronograph is available with a stainless-steel bracelet and a fine-adjustment clasp, which was developed in 2012 and with which the length can be adjusted simply and to exact measurements. The watch is also available with a black alligator leather strap and a classic pin buckle.



PILOT'S WATCH CHRONOGRAPH

REFERENCE 3777



REF. IW377701
in stainless steel with black
alligator leather strap



REF. IW377704
in stainless steel with
stainless-steel bracelet

Mechanical chronograph movement · Self-winding · 44-hour power reserve when fully wound · Date and day display · Stopwatch function with hours, minutes and seconds · Small hacking seconds · Soft-iron inner case for protection against magnetic fields · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Water-resistant 6 bar · Case height 15 mm · Diameter 43 mm



24 TIME ZONES AT A GLANCE

————— In view of rapidly advancing globalization, it is becoming increasingly important for pilots, frequent flyers and international business people to be able to keep track of things in different time zones. The Pilot's Watch Worldtimer surmounts this challenge in particularly elegant fashion. The dial shows current local time. If the wearer passes through one or several different time zones, the time can be adjusted forwards or backwards in one-hour steps to show the new local time, even when crossing the International Date Line. The date simply moves in sync with the jumping hour hand. Once set correctly using the crown, the rotating black-and-white 24-hour ring enables the wearer to read off the time in all 24 zones, including UTC (Universal Time Coordinated). The 23 place names on the external city ring each represent a time zone. If local time is changed on the dial, the time shown by the 24-hour ring remains unaffected and the movement continues to run during the changeover. With its vertically arranged numerals, the triple date display is reminiscent of the altimeter found in an aircraft cockpit. The Pilot's Watch Worldtimer is secured to the wrist by a black alligator leather strap with a folding clasp.



The 24-hour ring and date disc help the wearer keep track of different time zones

PILOT'S WATCH WORLDTIMER

REFERENCE 3262



REF. IW326201
in stainless steel with black
alligator leather strap

Mechanical movement · Self-winding · 42-hour power reserve when fully wound · Date display · Central hacking seconds ·
24-hour display for Worldtimer function · Soft-iron inner case for protection against magnetic fields ·
Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement
by drop in air pressure · Water-resistant 6 bar · Case height 13.5 mm · Diameter 45 mm

WORTHY SUCCESSOR TO A LEGEND

————— In both form and function, the Pilot's Watch Mark XVII is a virtually perfect example of a classic pilot's watch. Like the instrumentation found in a cockpit, the dial is black with white indices and reduced to essentials: legibility is a top priority. Compared with its predecessor, the Mark XVI, the stainless-steel case has increased by 2 millimetres in diameter to 41. In this model too, IWC's designers have modified the date window to make it look more like the instruments found in a cockpit: with its vertically arranged numerals, it is now reminiscent of an altimeter. The watch, which is water-resistant to 6 bar, is powered by an automatic 30110-calibre movement and has a 42-hour power reserve. In terms of precision and robustness – and like all its predecessors – the Mark XVII meets the full schedule of requirements for professional Pilot's Watches from Schaffhausen. With its soft-iron inner case for protection against magnetic fields and a front glass secured against sudden drops in pressure, the Mark XVII takes up a tradition established by its historic forebear, the legendary Mark 11 of the 1940s. The most famous of all IWC Pilot's Watches was discontinued only in 1981, over 30 years after its phenomenal launch, and attained cult status among watch devotees.



IWC
SCHAFFHAUSEN

MARK XVII
AUTOMATIC

SWISS
MADE



IWC
SCHAFFHAUSEN

MARK XVII
AUTOMATIC

SWISS MADE

26
25
24

PILOT'S WATCH MARK XVII

REFERENCE 3265



REF. IW326501
in stainless steel with black
alligator leather strap



REF. IW326504
in stainless steel with
stainless-steel bracelet

Mechanical movement · Self-winding · 42-hour power reserve when fully wound · Date display · Central hacking seconds · Soft-iron inner case for protection against magnetic fields · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Water-resistant 6 bar · Case height 11 mm · Diameter 41 mm



FOR MEN WITH A STRONG SENSE OF FAMILY

————— For men with a strong sense of family, IWC unveils an exclusive special edition: the “Pilot’s Watches for Father and Son” are available as a double edition or as a set of several pieces, in a high-quality presentation case. Father and son can retain their individuality while demonstrating the same exquisite taste. The father’s model is based on the Big Pilot’s Watch with a 7-day power reserve and date display. The smaller timepiece for the son, with its automatic 30110-calibre movement is, technically speaking, virtually identical to the Pilot’s Watch Mark XVI. Water-resistance to 6 bar and a glass secured against displacement by drops in air pressure make the Pilot’s Watch for sons a reliable everyday companion. Even if the technical specifications of the two models differ, the visible similarities are unmistakable. Both watches have a stainless-steel case, an eye-catching crown and a black alligator leather strap. With a space allowing for an engraving, they become a precious family heirloom that can be handed down from one generation to the next. The inner circle on the back is reserved for the engraving of a name, allowing personalization and preventing mix-ups. Because this Pilot’s Watch set comes with several watches for fathers with more than one son.

BIG PILOT'S WATCH FOR FATHER AND SON

REFERENCE 5009



REF. IW500906

in stainless steel with black
alligator leather strap

Mechanical movement · Pellaton automatic winding · IWC-manufactured 51111 calibre (50000-calibre family) · 7-day power reserve when fully wound · Power reserve display · Date display · Central hacking seconds · Glucydur® beryllium alloy balance with high-precision adjustment cam on balance arms · Breguet spring · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Water-resistant 6 bar · Case height 16 mm · Diameter 46 mm

PILOT'S WATCH MARK XVI FOR FATHER AND SON

REFERENCE 3255



REF. IW325519
in stainless steel with black
alligator leather strap

Mechanical movement · Self-winding · 42-hour power reserve when fully wound · Date display ·
Central hacking seconds · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against
displacement by drop in air pressure · Water-resistant 6 bar · Case height 11 mm · Diameter 39 mm



CHRONOGRAPH
AUTOMATIC

IWC
SCHAFFHAUSEN

SWISS
MADE

A TRIBUTE TO A PILOT, POET AND PIONEER



————— Since 2006, IWC has launched special editions of its Pilot's Watches in memory of the legendary pilot, writer and adventurer Antoine de Saint-Exupéry. In 2012, the year of the Pilot's Watches, the Schaffhausen-based company is honouring him with the Pilot's Watch Chronograph as a special limited edition of 500 watches in 18-carat red gold, as well as in stainless steel. An engraving of his last aircraft, the Lightning P-38, embellishes the case back. For connoisseurs, the tobacco-coloured dial and calfskin strap with its cream-coloured quilted stitching immediately identify the chronograph as a typical "Saint Ex". The elaborate surface finishing, featuring polished and silky-matte elements, enhances the overall quality of the watch's appearance. This impression is underscored by the sun-pattern finish on the dial. Developed and manufactured exclusively by IWC, the 89361-calibre movement is a masterpiece of technology. It displays long periods of time on a single subdial, thus eliminating the need for a second subdial of the kind often used for aggregate timing, for instance. It is a form of reduction of which the famous Frenchman would no doubt have approved: for, as he once wrote: "Perfection clearly does not arise when one has no more to add but when one can take no more away."

PILOT'S WATCH CHRONOGRAPH EDITION ANTOINE DE SAINT EXUPÉRY

REFERENCE 3878



REF. IW387805

in 18-carat red gold with brown
calfskin strap

Limited edition of 500 watches in 18-carat red gold · Mechanical chronograph movement · Self-winding · IWC-manufactured 89361 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Special back engraving · Water-resistant 6 bar · Case height 15.5 mm · Diameter 43 mm

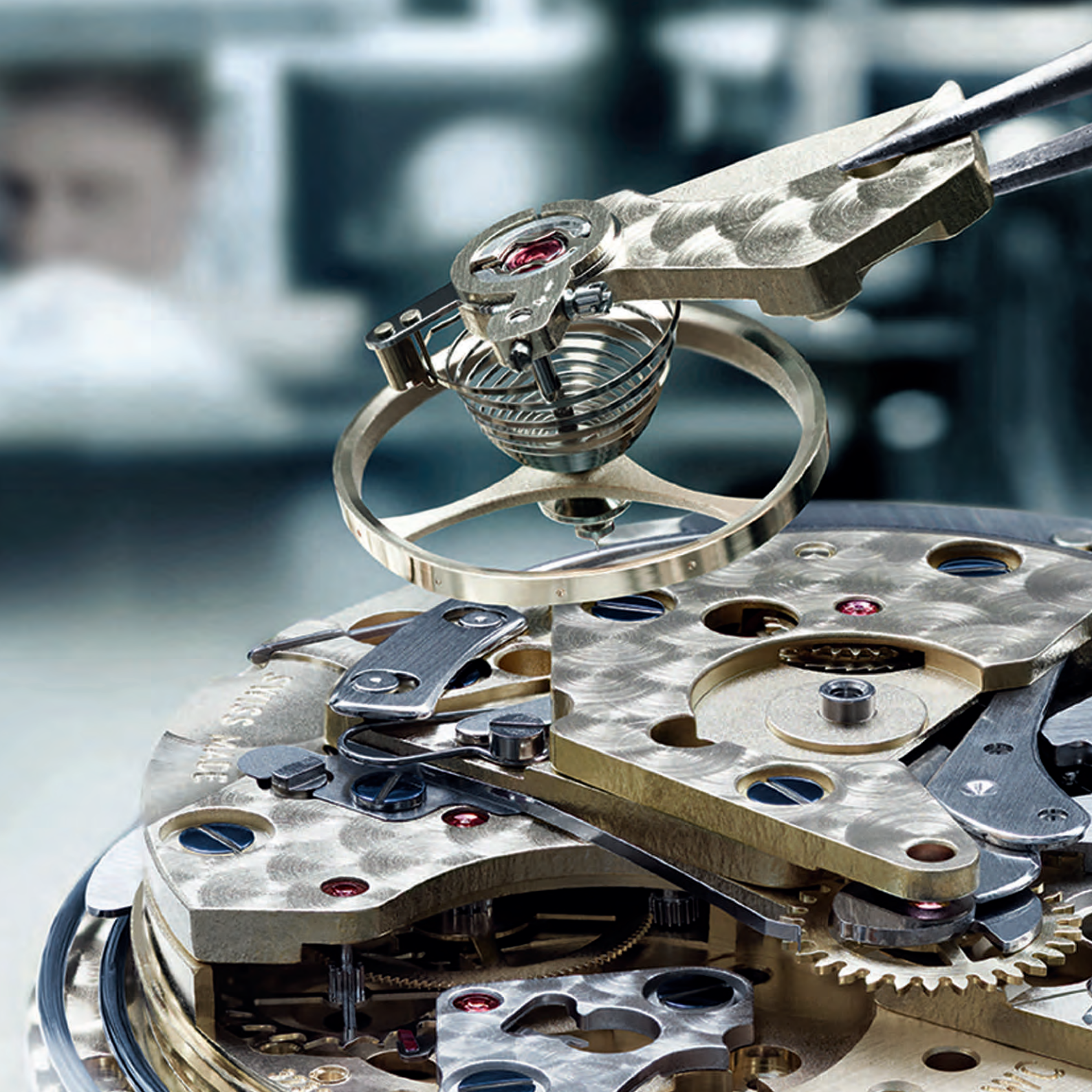
PILOT'S WATCH CHRONOGRAPH EDITION ANTOINE DE SAINT EXUPÉRY

REFERENCE 3878



REF. IW387806
in stainless steel with brown
calfskin strap

Mechanical chronograph movement · Self-winding · IWC-manufactured 89361 calibre (89000-calibre family) · 68-hour power reserve when fully wound · Date display · Stopwatch function with hours, minutes and seconds · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drop in air pressure · Special back engraving · Water-resistant 6 bar · Case height 15.5 mm · Diameter 43 mm





MANUFACTURE

WHY WATCHES FROM SCHAFFHAUSEN ARE SOMETHING SPECIAL

IWC'S PHILOSOPHY

————— Schaffhausen is an island in Switzerland's watchmaking industry, because the vast majority of the manufacturers are based in the French-speaking part of the country. Since 1868, this unusual geographical location has fostered IWC's philosophy. The manufacturer on the bank of the Rhine makes precision timepieces of lasting value, with a clear focus on technology and development. The company has made its name internationally through a passion for innovative solutions and technical inventiveness. As one of the world's leading premium brands in the luxury watch segment, IWC creates masterpieces of haute horlogerie, which combine engineering and precision with exclusive design. The reputation of the brand from Schaffhausen is founded not least on the fact that its highly qualified employees master every step of the production process behind in-house movements and complications such as the minute repeater, the tourbillon and the perpetual calendar. For the designers and construction specialists at IWC, the claim to excellence, "Probus Scafusia" – "Craftsmanship made in Schaffhausen", which was first formulated in 1903, is not only an enormous challenge; it is also their great passion. Every IWC watch is professionally finished by masters of their trade. For they are the individuals whose trained eyes, nimble fingers and precision instruments put together IWC watches from a collection of single parts: each a fascinating showpiece of meticulous workmanship, functionality and design; each an outstanding example of the art of watchmaking at its very best.





A whole team of specialists is involved in the development of a new watch:
engineers, watchmakers, technicians and designers

DEVELOPMENT: BEFORE A WATCH FROM IWC TICKS FOR THE FIRST TIME

CONSTRUCTION AND DESIGN

Whenever IWC starts developing a new model, one question needs to be asked. What, exactly, do the designers and construction specialists wish to achieve? Should the watch set new standards in complexity? Will its main strength be the power reserve, or perhaps its water-resistance? In an initial step, the first components are “modelled” using computer-aided design. Here, IWC attaches enormous importance to integrating the work of engineers and designers as well as state-of-the-art production technology. Working closely with the construction specialists, the watch designers play a crucial role in determining how best to harmonize form and function. The dial and the strap or bracelet, the positioning of the displays, the choice of materials and colours or the surface finish are always the logical outcome of constructive teamwork. Apart from the technological achievement and an attractive design, other, more emotional, aspects – such as the way the watch actually feels in the hand – also play an important role. Thus, the feel of the edge of the case, the way a push-button is activated or the sound of the crown as it engages are not left to chance. Often, the construction specialists and designers will take their inspiration from old drawings. Ultimately, it is respect for the watchmaking pioneers of the past that guarantees continuity at the Schaffhausen-based company.

QUALITY MANAGEMENT

Thanks to a sophisticated development and quality management system backed by an exacting inspection and testing programme, IWC is able to guarantee quality of the highest order. The advanced scientific methods used include computer simulations drawing on three-dimensional models, X-ray-based material analyses or tests designed to show how the watches behave under extreme practical, everyday conditions. The use of high-speed cameras and laser measuring instruments makes even the tiniest movements visible, while sophisticated software calculates exactly what stresses a part will tolerate.

Details such as wheels, shafts, tooth profiles or the dimensions of springs are examined for potential sources of error from the earliest phases of development. IWC calls this process failure mode and effects analysis (FMEA). The developers draw on experience from earlier projects, feedback from the market and suggestions about ways of making the watches more service-friendly. The result is an IWC watch that will continue to run and can be repaired for many, many years.



TESTS: THE LONG, HARD ROAD FROM PROTOTYPE TO FINISHED PRODUCT

QUALIFICATION AND APPROVAL PROCESS

————— Qualification is a term used to describe a programme of around 30 grueling tests lasting several months which are designed for new watches at the prototype phase or later as part of the approval process for the pilot series. These tests simulate, in condensed form, just about everything that can happen to a watch, under normal and extreme conditions, during the course of its long life. Only when several prototypes have passed stringent testing and a pilot run has revealed no more problems is the company ready to go into series manufacture, thereby adding another fascinating chapter to the legend that is IWC.

IN A PENDULUM IMPACT TESTER, THE WATCH IS ACCELERATED TO 5,000 G IN SPLIT SECONDS

IMPACT TESTS

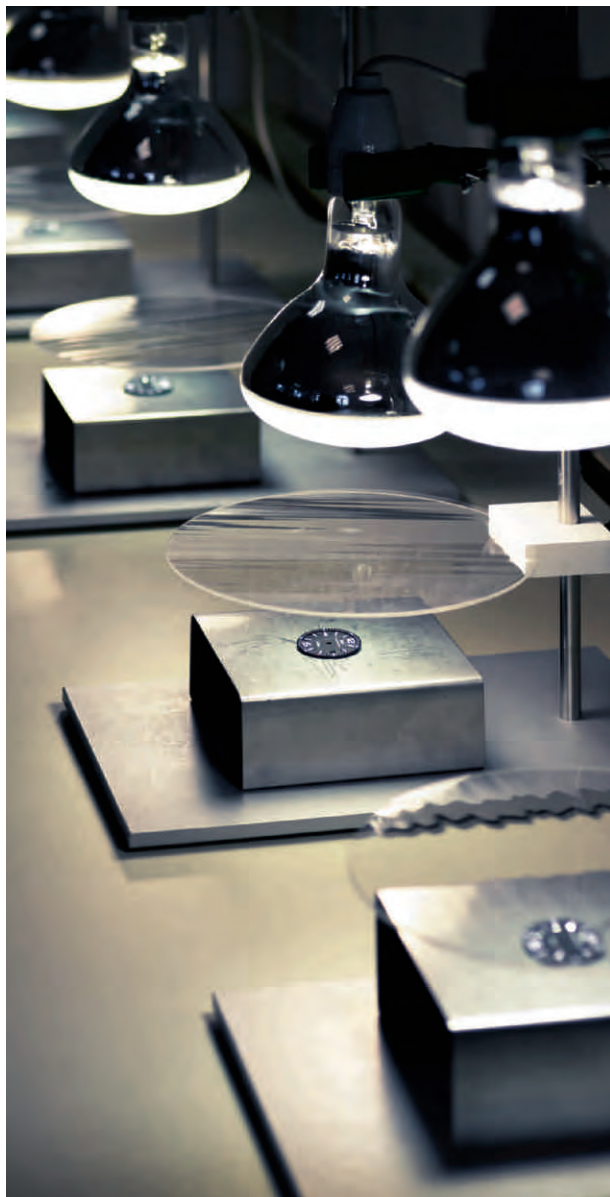
During impact testing, the watch is exposed to various rates of acceleration. Normal acceleration, due to gravitational forces, is $1\text{ g} = 9.81\text{ m/s}^2$. If a force of 100 g is exerted on a watch with a case weighing 100 grams, the watch's components are subjected for a short time to forces equivalent to 10 kilograms. The Pilot's Watches from IWC have even withstood forces of 30 g for periods of several minutes in a centrifugal accelerator. In a pendulum impact tester, the watch is accelerated to 5,000 g in split seconds, which simulates the effect of a free fall onto a hard wooden floor from a height of 1 metre. One of the most demanding tests of them all is the "chapuis extrême": here, the watch is shaken around inside a small container for hours on end, subject to knocks and impacts from all sides – 140,000 at a simulated acceleration of 25 g, 94,000 at an acceleration of 100 g and 960 at an acceleration of 500 g.

ABRASION TESTS

For test purposes, some parts are manufactured as early as during the design phase in order to check the minimum requirements for those components subjected to unusually high wear and tear. Take the Aquatimer's engaging rotating bezel, for instance, which undergoes a fatigue test equivalent to four dives per day, guaranteeing a minimum service life of 10 years. The rotating bezels in IWC's diver's watches also have to prove their reliability in dirty water. On the crown/push-button testing stand, chronograph push-buttons are operated 10,000 or even 20,000 times to assess their resistance to wear and tear.



A tensile test ensures that the strap will remain firmly attached to the wearer's wrist even under enormous strains



Even after days of exposure to UV radiation, there must be no change in the colour of the dials

CLIMATE TESTS

In the climate tests, the entire spectrum of thermal conditions a watch owner can be exposed to are systematically tested. Geographically speaking, this embraces everything from Alaska to the Sahara and the Brazilian rainforest. Watches are placed in a test chamber where, over a period of days and sometimes weeks, they have to withstand temperature changes ranging between -20 and $+70$ degrees Celsius and up to 95 per cent relative humidity. The next item on the agenda after this ordeal is long-term monitoring of the rate. This test makes use of an automatic multilevel microphone to check the regularity of the beat.

CORROSION AND UV TESTS

A 2-week test in a saline bath at 37 degrees Celsius ensures that only materials that will not corrode in daily use or even in aggressive salt water are selected. Dials are exposed to strong ultraviolet light for days on end and must not show any change in colour.

PRACTICAL TESTS

Scheduled tests carried out in the laboratory, of course, cannot successfully simulate every situation likely to be encountered in real life. Before IWC watches are launched, they are therefore given to individuals both inside and outside the company who wear them normally under everyday conditions. Effectively, and depending on the model in question, IWC watches are put through their paces when the wearer is chopping wood, diving, playing golf, mountain biking or climbing at 3,000 metres.



ASSEMBLY: AT IWC, HIGH TECHNOLOGY AND CRAFTSMANSHIP ARE NOT A CONTRADICTION

PRODUCTION TECHNIQUES

————— In the course of the production of parts for movements, the various blanks are machined with the help of CNC milling machines. After surface machining, the acceptable tolerance for components, in general, is just ± 0.02 millimetres, but in certain cases this may be as low as ± 0.002 millimetres. After machining, the parts are finished by hand or proceed to an electric discharge machine. CNC electric discharge machines are used primarily for parts in the movement. The surface roughness can be controlled to a tolerance of 0.005 millimetres, but for precision EDM work, it is as low as 0.001 millimetres.



After milling, every case is carefully checked and meticulously brought up to IWC standards by hand

ASSEMBLING THE MOVEMENT

The assembly of a movement involves putting together the winding mechanism, train and escapement, as well as the subsequent “réglage”, or precision adjustment of the timepiece. Depending on the model in question, it can also involve the automatic winding and chronograph mechanisms as well as the calendar and hour counter. The most complex of these jobs is adjusting the escapement and aligning the balance spring so that it runs true and flat: this is a high-precision manual task that no machine could ever carry out even remotely to the same high-quality standards. Functions and precision adjustments are checked and corrected continuously at every stage of the assembly process. After this, highly skilled watchmakers in the complications department add on complications such as the perpetual calendar or split-seconds mechanism to the basic movement. In the special features department, the watch movements are fitted with tourbillons and minute repeaters from the bottom up: they pass through the preliminary assembly and assembly stages, all fine adjustments are made and they are fitted into the cases.

CASE MANUFACTURING AND ASSEMBLY

In terms of the precision and effort involved, the manufacture of the case is in no way inferior to the other stages of production. For watches made of a precious metal, the case parts are manufactured from pre-formed blanks. Stainless-steel and titanium cases are made from bars, specially produced for IWC, which are machined on CNC lathe and milling machines to an accuracy of one-hundredth of a millimetre. Milling machines are used to cut the horns for the strap or bracelet and the apertures for the crown and push-buttons into the casing rings and to create the complex open surfaces, such as those on the cases of the Ingenieur watches. After the cutting process, the measurements are meticulously checked and the surfaces brought up to IWC standards with precision craftsmanship. The edges are deburred and rounded off, or faceted. All traces of lathing, milling and machining are removed, and the surfaces are finely ground and polished, satin-finished and blasted. Specialists now apply decorative surfaces such as circular graining to certain parts of the case, including places

**THE MOST COMPLEX JOB
IS ADJUSTING THE
ESCAPEMENT AND ALIGNING
THE BALANCE
SPRING SO THAT IT RUNS
TRUE AND FLAT:
A HIGH-PRECISION MANUAL
TASK WHOSE QUALITY
NO MACHINE COULD HOPE
TO MATCH**



Assembly of the balance spring calls for experience and a steady hand



Extensive final inspections guarantee the suitability of every single IWC watch for everyday use

not visible from outside. Finally, a series of complex tests such as water-resistance and outward appearance completes the case production process.

DIAL, HANDS AND CASING UP

In these departments, all processes are carried out by hand. Depending on the model in question, specialists mount the dials on the fully timed and regulated movement by hand or using special tools. The same applies to the hands, which need to be set at exactly the right height and grip the pivot onto which they are firmly mounted. With chronographs, the zero position of the hands must also be absolutely exact. The movement is secured in position either to a casing ring or directly to the case. If the movement is gripped by a casing ring, the latter is held in position by a wave spring in the case back. The winding stems are individually adjusted. A special adhesive secures crowns that are screwed onto the winding stem.

FINAL INSPECTION

Over a period of 10 days, the automatic movements in self-winding watches are rotated continuously, while those with manual winding are fully wound every other day. Running-in gives the wheels and pinions a chance to adapt to each other perfectly, while the lubricant penetrates into all the right places.

The quality assurance process is brought to a close with extensive final inspections. A watch's suitability for everyday use is tested one last time by fully winding the movement, measuring its accuracy, checking the functions and appearance, and confirming its resistance to air and water. The quality of any product that leaves the company on the Rhine is beyond all doubt. This seamless quality assurance process guarantees every future owner of an IWC watch that the company rigorously upholds its legendary quality standards.

ENGRAVINGS: AN ARTISTIC WAY TO MAKE A DIFFERENCE

————— Every watch from IWC already has a personality with characteristics of its own. Nevertheless, there are often customers who want more, and ask us to give their pocket or wristwatches a touch more individuality.

Thanks to modern engraving techniques, the range of options offered by IWC in this area is virtually unlimited. Practically any request for specific changes to customize a watch can be executed to perfection. “Engraving” comes from the French word “graver” and originally meant “to plough a furrow”. The carving of drawings, patterns, ornamentation or writing on wood, stone, ivory and metal creates attractive light and shade effects and is a means of immortalizing very personal ideas. In this way, miniature works of art, such as the engravings on the back cover of the Aquatimer Chronograph Edition “Expedition Jacques-Yves Cousteau” or the Ingenieur Chronograph Silberpfeil, have been created for posterity. An IWC watch may also be made unique by the addition of engraved initials, a date, a family crest, a company logo or a personal dedication: the essence of individuality.



SERVICE: GENERATIONS TAKE PLEASURE IN WATCHES FROM IWC

MAINTENANCE AND SERVICE

————— In 25 countries around the world, over 200 watchmakers and service technicians have been dedicated to the maintenance and repair of IWC watches of every vintage since the company was founded in 1868. To ensure that no single detail is lost, IWC has maintained detailed records of every watch that has left the factory since 1885.

At the heart of the repairs department lies the spare parts store. This accommodates millions of meticulously ordered individual components. At IWC, the availability of original spare parts is crucial because they are essential if watches are to be kept running for generations. In order to prevent certain moving parts from wearing and the natural ageing of oils and greases, we recommend that a watch should have a maintenance service every 2 years, with a complete one roughly every 5 years. The intervals between individual services depend very much on how the watch is used and the conditions to which it is exposed.

MAINTENANCE SERVICE

The maintenance service involves the cleaning and lubrication of the escapement and the balance once the movement has been removed from the case. Mechanical movements are demagnetized, and in quartz movements the battery is replaced. The case and metal components of the strap are cleaned. Re-adjustment of the movement, replacement of the case seals, a water-resistance test and a functional check are also included in the maintenance service.

COMPLETE SERVICE

The complete service involves dismantling the movement piece by piece and cleaning the individual components. Specialists carefully examine every part of the movement and repair or replace worn or faulty parts. Subsequently, the watch is reassembled from scratch and, where necessary, oiled and lubricated. Finally, the watch's accuracy is tested and the movement is re-adjusted.

The case is also completely dismantled. Scratches are repaired, case and strap components are ground or polished and the angles finished and then thoroughly cleaned. Before the watch is returned to the customer, it undergoes a final intensive testing phase which lasts several days. Only by going to these lengths can IWC guarantee that the watch will run accurately and remain water-resistant for years to come.

Every owner of an IWC watch can help to increase the useful service life of his timepiece. Tips and suggestions can be found on the company's website at IWC.com and in the service brochure, "IWC service", which can be obtained at IWC boutiques and IWC service centres, as well as from our authorized retailers.



After successfully passing tests and functional controls, the dial and hands are assembled and the individual components reunited



SINCE 1885: RECORDED FOR POSTERITY

THE IWC CERTIFICATE

————— The story of every IWC watch begins in the workshop, where passionate watchmakers dedicate long hours to perfecting every detail. To make sure that it never loses track of a single watch, IWC began keeping records about them in 1885. All information is noted, including sale date, calibre, material and case numbers or reference numbers for newer models. Heirs and subsequent buyers have the option of obtaining precise information about their IWC watch for a fee, thus confirming its authenticity. This and further information is provided in the form of a certificate.

For a certificate to be issued, the watch must be taken to an IWC boutique or authorized retailer. In our workshop in Schaffhausen, the IWC timepiece is then subjected to careful, detailed testing by an experienced watchmaker.

Unfortunately, it is not possible to provide information about the collector's value of specific models, because this depends on factors such as supply and demand as well as the condition of the movement and case.

In the event of a worst-case scenario involving loss or theft, it is advisable to report the incident in writing to the police and IWC. The case number, or the reference number for a newer

model, in question is then entered in a special register, which ensures the watch is recognized if it is taken to an IWC service centre. This registration process has so far allowed many missing watches to be reunited with their rightful owners.



Since 1885, records have been kept of every watch manufactured by IWC

IWC TRAINING CENTRE: THE APPRENTICES OF TODAY ARE THE MASTERS OF TOMORROW

VOCATIONAL TRAINING

Ever since its foundation, IWC has been like a “watch island”, far removed from the traditional watchmaking centres of western Switzerland. This is one of many reasons why the company has been forced to make its own arrangements to ensure a steady supply of individuals skilled in the manufacture of mechanical watches. It is a commitment the company has embraced with a passion. Since the late 1970s, qualified watchmakers have been much in demand, but IWC started offering apprentice training according to state-recognized certification standards as early as 1950. This resulted in the foundation of its own training centre for watchmaking professions in 1968. In 2001, a new set of regulations for trainees and apprentices came into force; these offer budding watchmakers more flexible opportunities. Every year, IWC trains up to 14 skilled workers. There are currently 38 trainees following seven different specialist courses.

At IWC, apprentices learn the craft of watchmaking in its many different forms. They spend 80 per cent of their apprenticeship in the apprentice workshop and the remaining 20 per cent on the shop floor. All watchmaking apprentices undergo the same training for a period of 3 years, after which they receive the title of “practical watchmaker”. Basic training covers the winding mechanism, the train and the motion work, the parts of the escapement, setting the spring and installing the finished balance in the watch. The watchmaker fine-tunes the movement and inserts it in the case, and also learns how to service and

repair various watch models. In their fourth year, apprentices can opt for more specialized training in “industrial production”.

The aim is to give the young trainees as broad an introduction as possible to their profession. Apart from the necessary practical skills, this includes personal factors such as independence, flexibility and creativity as well as other factors such as a willingness to learn or work in a team: for these, too, are essential characteristics for anyone intending to make complex IWC watches.



At IWC, young people are introduced to the broad spectrum of a watchmaker's profession



Since 1950, IWC has offered its apprentice training according to state-recognized standards

MUSEUM: PLUNGING INTO THE WORLD OF IWC

WATCH MUSEUM

————— For watch devotees and IWC fans, a visit to the company's premises in Schaffhausen has long been an unforgettable and defining experience. Since 2007, IWC has opened its doors to visitors in a completely redesigned watch museum. The light-flooded areas on the converted ground floor of the main building – formerly the case and parts manufacturing departments – provide a luxurious and, at the same time, functional setting for over 140 years of company history and over 230 carefully selected exhibits. Since 2010, the IWC watch museum has been a member of the Swiss Museums Association (VMS).

The tour begins in the West Annexe, where visitors can view original watches from the first 100 years of IWC. The pieces on display include valuable rarities from the history of watchmaking, including one of the very first IWC watches, an "American" hunter pocket watch with the 1874-calibre F. A. Jones movement, or the first Pallweber pocket watches with a digital display from the mid-1880s. Equally striking are the first Pilot's

Watches made in the 1930s and 1940s, especially the Big Pilot's Watch launched in 1940; with a case measuring 55 millimetres in diameter, it is still one of the world's largest wristwatches. Multimedia displays and tableaux provide a detailed and multifaceted introduction to the individual pieces.

Comfortable, lounge-style furniture with audio stations gives interested visitors an opportunity to relax and go with the flow of time as they immerse themselves in an acoustic interpretation of the past and present of luxury mechanical watchmaking. The museum's East Annexe provides a suitable home for the IWC watch families created since 1970. Here visitors can admire milestones in modern haute horlogerie such as the first Da Vinci wristwatch to feature the first IWC 2001-calibre quartz movement (Beta 21) or the legendary Il Destriero Scafusia. IWC is always pleased to welcome interested visitors to its museum, but group visits are unfortunately not possible without advance notice in writing. We look forward to receiving your written request through: visit@iwc.com



In light-flooded rooms and stylish surroundings, visitors can take an entertaining stroll through 146 years of IWC history

SUSTAINABILITY AT IWC SCHAFFHAUSEN

IWC SCHAFFHAUSEN HAS A FIRM COMMITMENT TO ECOLOGICAL
AND SOCIAL RESPONSIBILITY

————— The principle of sustainability is one of IWC's top priorities. Our goal is the sustainable, long-term manufacture of high-quality products that makes optimum use of resources while respecting social concerns. Economic efficiency does not exclude responsibility to and solidarity with society, or the practice of exemplary ecological policies.



IWC IS PART OF A STRONG COMMUNITY



IWC has deep roots in the town of Schaffhausen in north-eastern Switzerland, the location of the company's foundation and its headquarters to this day. The company promotes numerous social, cultural and sporting activities in the region. But as an internationally successful company, IWC Schaffhausen also sponsors social and ecology-related projects worldwide. This commitment manifests itself in the partnerships IWC has cultivated for many years with various institutions.

Since 2005, IWC has been a main sponsor of the **Laureus Sport for Good Foundation**. This globally active Foundation uses the power of sport to coach disadvantaged young people, or to give them an education that will enable them to surmount the pressing social challenges that confront them.

The **Antoine de Saint-Exupéry – d'Agay Foundation** upholds the humanist and spiritual legacy of the great French writer and aviation pioneer. This Foundation promotes education for children who, for various reasons, grow up in difficult environments. It has had a cooperation agreement with IWC since 2005.

The **Charles Darwin Foundation (CDF)** is an international non-profit organization that focuses on the protection of the Galapagos Islands, mainly by way of its scientific work. IWC has helped sponsor the Foundation since 2009.

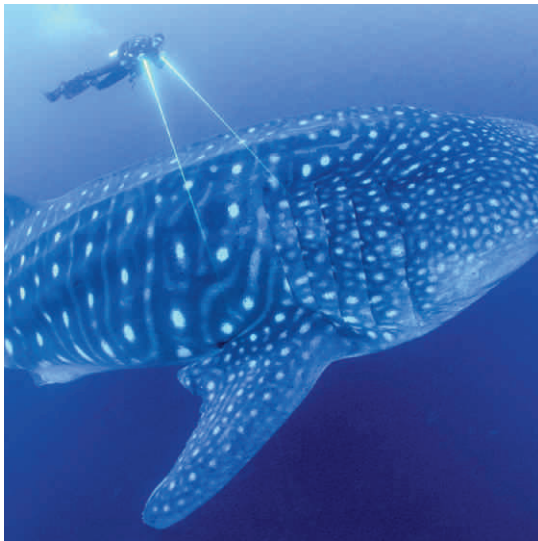
The **Cousteau Society**, founded in 1973 continues the scientific work of the famous marine researcher Jacques Cousteau, and is committed to the protection of maritime life. IWC has worked with the Foundation since 2004.



Laureus Sport for Good Foundation



Antoine de Saint-Exupéry – d'Agay Foundation



Charles Darwin Foundation



Cousteau Society

EVERY COMPANY HAS BOTH A SOCIAL AND AN ECOLOGICAL RESPONSIBILITY

IWC AND SYSTEMATIC ENVIRONMENTAL PROTECTION

Thanks to rigorous environmental management, IWC has adopted a leading role in environmental protection. The company has covered all its energy needs with ecological hydro-electric power since 2007 and is CO₂-neutral. IWC compensates for emissions that cannot be eliminated entirely by making voluntary payments into potentially beneficial environmental projects.

Modern, ecologically sound building techniques have enabled IWC to keep the energy consumed by in-house utilities constant over the past 11 years. This is all the more impressive when one considers that both production and the total useful area of the headquarters' facilities have more than doubled in that time.

In the East and West Annexes, inaugurated in 2005 and 2008, respectively, IWC recycles energy in the form of residual heat from wastewater in Schaffhausen's sewers. At the heart of the system is a combination of cooling and heat pumps that are able to generate heat or cold alternately, or even simultaneously. Moreover, the East Annexe, features two groundwater holders, which can be used to cool the building and machines and, when necessary, supplement the heating system.

In addition to this, the company has installed optimally insulated glass facades, a rainwater collection system for the sanitary facilities and a modern ventilation system to reduce energy consumption. IWC uses only FSC-certified paper, and does so as economically as possible. Logistics and transport are regularly reassessed to ensure efficient use of resources.

On a private level, IWC contributes towards environmental protection by encouraging employees to use public transport.

IWC is a member of The Climate Group, an international, independent non-profit organization, which works closely with governments and business leaders to generate intelligent strategies and technologies that reduce global emissions.

IWC IS COMMITTED TO SUSTAINABLE SOURCING

When sourcing raw materials, IWC strives to obtain the highest possible quality. Equally important is adherence to social and ecological standards. This applies not only to IWC itself but also to its suppliers, who are required to meet the same environmental and social standards.

Since September 2012, IWC has been a member of the Responsible Jewellery Council (RJC), an international non-profit organization. Its members are obliged to establish strict guidelines for ethical, social and environmental practices, and to guarantee the protection of human rights.

Another example of responsible behaviour towards natural resources is the protection of animals living in the wild. For this reason, IWC uses only leather from animals that have been bred and raised on farms.





**F. A. JONES FOUNDED THE
INTERNATIONAL WATCH COMPANY IN 1868**

————— Florentine Ariosto Jones (1841–1916), a watchmaker from Boston, Massachusetts, founds the International Watch Company in Schaffhausen. His aim: to produce high-quality pocket watches for the American market.

1884



Innovation: the first watches with a digital hours and minutes display (Pallweber system) leave the workshops in Schaffhausen. Pictured is a Lépine pocket watch from 1887 with jumping numerals and hand-painted dial

CHRONOLOGY

1899

One of the first known wristwatches leaves Schaffhausen destined for the market. IWC's small 64-calibre ladies' pocket watch movement is housed in a dainty case fitted with lugs for the bracelet.

1915

Two newly developed calibres, the 75 and the 76, are the first movements designed by IWC specifically for wristwatches.

1931

IWC creates elegant, rectangular watches that contain the newly designed tonneau-shaped 87 calibre.

1936

The first IWC Special Pilot's Watch is launched. It features a rotating bezel with an arrowhead index that can be used to register take-off times. The watch is also fitted with an anti-magnetic escapement.

1939

The birth of the Portuguese watch: two importers from Portugal order a series of large wristwatches with high-precision pocket watch calibres.

1940

In response to demand, IWC develops the Big Pilot's Watch 52 T. S. C. with a central seconds hand. Its black dial references the design of cockpit instrumentation and influences the subsequent instrument look of Pilot's Watches.

1944

The launch of IWC's first W. W. W.: a new wristwatch for military use by the British Army. The letters W. W. W. engraved on the back of the case stand for "Watch, Wrist, Waterproof", and the royal arrowhead insignia is used as a mark of ownership. Albert Pellaton, born in 1898, takes up his post as Technical Director at IWC.

1946

Pellaton's first design, the 89 calibre, has a central seconds and is extremely accurate.

1948

Launch of the Pilot's Watch Mark 11 from IWC with the 89 calibre. Its soft-iron inner case provides unusually high protection against magnetic fields.

1950

The 85 calibre, designed by Albert Pellaton, features IWC's first automatic winding mechanism. The innovative pawl-winding system replaces the traditional reciprocal gearing and, at this time, is a patented proprietary development by IWC.

1955

Hans Ernst Homberger becomes the company's last private owner. The Ingenieur with Pellaton automatic winding system is launched.

CHRONOLOGY

1967

With the Aquatimer, IWC marks the beginning of a successful series of diver's watches. Pressure-resistant to an unprecedented 20 bar, it is the watch of choice for professional underwater use. The Yacht Club Automatic is unveiled at the Swiss Watch Show in Basel.

1976

With the new Ingenieur SL, IWC takes the Ingenieur tradition a step further. The watch is designed by Gérald Genta.

1978

The cooperation with designer F. A. Porsche results in the first wristwatch with a built-in compass. The same year, German instrument manufacturer VDO Adolf Schindling AG acquires IWC.

1980

IWC produces the world's first chronograph in a titanium case, designed by F. A. Porsche. IWC procures its expertise in the machining of titanium through an exchange of ideas with Aérospatiale and other leading technology specialists.

1984

The Portofino watch line brings a touch of Italian flair to the IWC collection. The Reference 5251 inspired the new watch family.

1986

IWC begins to use zirconium oxide, a scratch-resistant ceramic virtually unaffected by wear and tear, as a new case material.

1987

With its Novecento (Italian for "20th century"), the Schaffhausen-based company presents the first rectangular, water-resistant and automatic IWC watch with a perpetual calendar.

1989

Tested in a magnetic resonance tomograph, the antimagnetic protection of the Ingenieur Automatic "500,000 A/m" withstands no fewer than 3.7 million amperes per metre.

1990

A quantum leap in haute horlogerie: the wristwatch-size Grande Complication is launched with a wealth of functions: a chronograph with a perpetual calendar, minute repeater and moon phase display. It is a masterpiece that was 7 years in the making.

1985



The Da Vinci is the first IWC chronograph to feature a perpetual calendar that is mechanically programmed for the next 500 years and can be set using only the crown. Another exclusive feature is the four-digit year display

CHRONOLOGY

1993

To mark its 125th anniversary, the Schaffhausen-based watch manufacturer unveils what was then the world's most complicated mechanical wristwatch: Il Destriero Scafusia, "The Warhorse of Schaffhausen". The exclusive timepiece features a tourbillon, split-seconds hand, minute repeater and perpetual calendar, as well as many other complications. That same year, in a limited series, IWC revives the tradition of the large-calibre Portuguese wristwatches.

1994

The Pilot's Watch Mark XII maintains the tradition of the legendary Mark 11.

2000

With the extra-large 5000 calibre, which runs for 7 days and features a power reserve display and a Pellaton automatic winding system, IWC's designers develop the company's own movement for large wristwatches. IWC is acquired by Richemont.

2002

IWC revives its Big Pilot's Watch tradition and unveils the Big Pilot's Watch with a 7-day movement, automatic winding system, power reserve display and date display.

2004

IWC relaunches the Aquatimer watch family. The Portuguese Automatic embarks on a successful career that has lasted to this day. New models are also added to the Da Vinci and Portofino lines.

2008

On the 140th anniversary of its foundation, IWC pays homage to the legendary founders of its six watch families in an exclusive IWC Vintage Collection. The West Annexe, built for the company's watchmakers in the same style as the East Annexe, is completed.

2013

The completely overhauled Ingenieur collection is inspired by IWC's new cooperation with the MERCEDES AMG PETRONAS Formula One™ Team. Two of the spectacular watches that underscore IWC's aspirations to lead the constructors' championship in haute horlogerie include the Ingenieur Constant-Force Tourbillon featuring the patented mechanism responsible for its name and the Ingenieur Perpetual Calendar Digital Date-Month with its quick-action switch. Case materials such as titanium aluminide, carbon, ceramic and titanium are inspired by the range of materials used in FORMULA ONE.

2002



At the Salon International de la Haute Horlogerie (SIHH) in Geneva, IWC presents the Big Pilot's Watch with its 7-day movement, automatic winding system, power reserve display and date display, and revives the company's Big Pilot's Watch tradition

IMAGES

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For its Annual Edition, IWC uses paper from sustainable forestry cultivation projects as a means of supporting environmentally friendly forestry methods designed to protect the woodlands of Europe.

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TECHNICAL DETAILS

Technical and other specifications may change without notice, and all models and product lines are subject to availability. The information provided here refers exclusively to the model named or is of a general nature. In view of the high level of manual craftsmanship involved, all the specifications are subject to production tolerances.

The illustrations in this catalogue may show watches with customized or special features that are available only at additional cost upon request.

Not all the watches in this catalogue are shown in their original sizes. For printing-related reasons, there may be deviations in the colours of the watches illustrated. The stamp shown on the inside of the Santoni leather straps may also differ from the original. It should also be noted that, when natural materials are used (e.g. leather), differences in colour and appearance cannot be excluded. Natural materials are not suitable for use in and under water.

The position of tool recesses and engravings on screw-in back covers may vary from watch to watch.

The "jewels" used in wristwatches (often referred to as "rubies" because they are mostly red in colour) are not genuine precious stones. Designed to reduce friction and mechanical wear and tear, they are made of industrial-standard sapphires, usually rubies. They are used for bearings, levers and detents as well as parts of

the escapement and the balance and spring, but are also found in certain parts specific to automatic movements, chronographs and minute repeaters. Synthetically manufactured rubies have practically the same physical and chemical properties and are similar in colour to naturally occurring rubies, but their purity and a more homogeneous crystalline structure give them certain advantages. Depending on the density, hardness, and resistance to pressure and abrasion required, "jewels" may be used that are different from synthetic rubies and/or synthetically manufactured functional jewels. This is due to the materials employed and can create colour differences that result in whitish or transparent stones, for example. As regards their physical and chemical properties, these "jewels" are similar to natural rubies and, after cutting and polishing, have the same surface characteristics.

The number of "jewels" shown on an IWC movement refers to all its synthetically manufactured functional jewels. Nowadays, it is technologically possible to make gears, cams and other movement parts from classical stones, but these components are not counted with the jewels.

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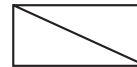


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