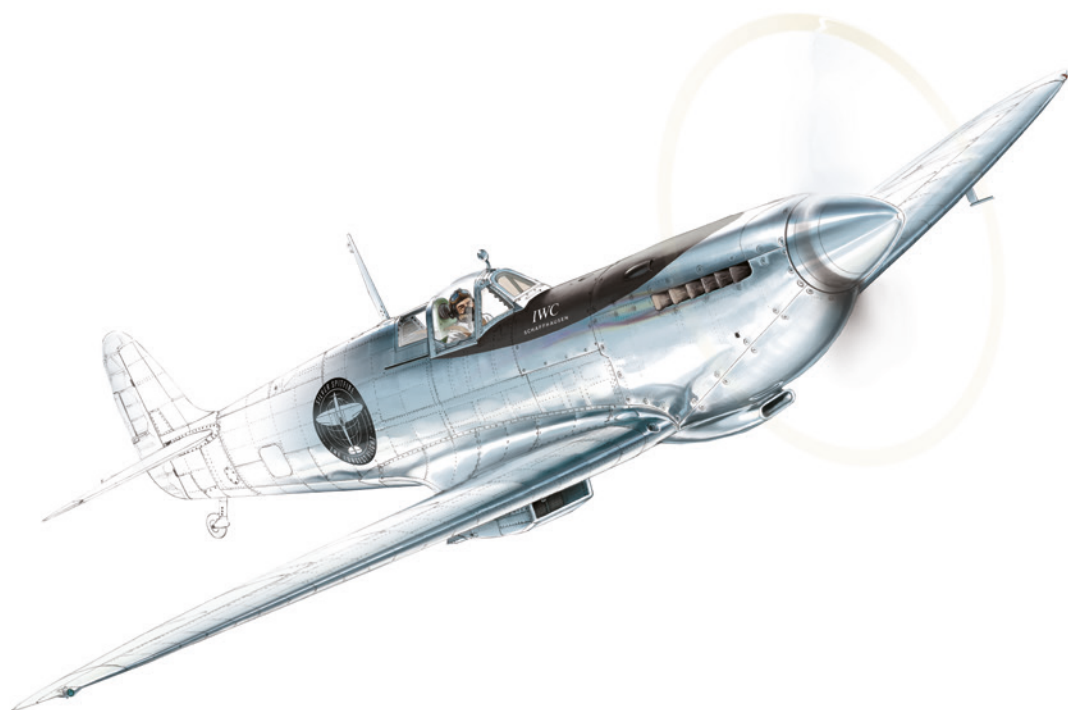


— SIHH 2019 —

IWC PILOT'S WATCHES COLLECTION 2019



SPITFIRE, TOP GUN & SPECIAL EDITIONS

PREPARED WITH ILLUSTRATIONS OF ROMAIN HUGAULT

Romain Hugault

IWC
SCHAFFHAUSEN

THE LONGEST FLIGHT - IT ALL BEGAN WITH A DREAM

Ever since man has existed, he has dreamt of flying. The Pilot's Watches we have been making for over 80 years in Schaffhausen have brought this dream to our wrists. Their history is inseparably linked with that of military aviation. The Mark 11, for instance, which we started manufacturing for the British Royal Air Force in 1948, was used by navigators and pilots for celestial navigation in the cockpit until the early 1980s.

The Mark 11's purist instrument look also inspired the aesthetic of our new Spitfire collection. It takes its name from the legendary British fighter plane, whose characteristic, elliptically shaped wings emerged from an eminently functional design process. As a tribute to this outstanding feat of engineering, we have equipped all the models in the line with high-quality IWC-manufactured calibres.

Two men who are also fascinated by the Spitfire's engineering are Steve Boulton Brooks and Matt Jones. Next summer, the two British pilots plan to circumnavigate the globe in a Spitfire, for the first time in the history of aviation. To cover the more than 43,000 kilometres, they will need to divide the flight into about

100 legs. The propeller-driven aircraft has only a limited range and requires intensive maintenance, which makes the adventure an enormous logistical challenge. We are thrilled by the boldness of the idea and will be actively supporting the "Silver Spitfire – The Longest Flight" project.

Another challenge, this one involving slightly more speed, are the tortuous manoeuvres carried out in supersonic jets like the F/A-18E/F Super Hornet. Made of rugged materials like ceramic and titanium, our TOP GUN watches were designed specially for missions in a jet cockpit. For the latest collection, we are also now using Ceratanium®. Developed by IWC, the new material not only unites the advantages of titanium and ceramic but for the first time has also allowed us to make a Pilot's Watch with a design entirely in "Jet Black".

And finally, who could better translate the fascination of flying into compelling images than someone who also sits in a cockpit? French illustrator and recreational pilot Romain Hugault has, among other things, captured the Spitfire's glorious silhouette in his paintings.

CHRISTOPH GRAINGER-HERR
CEO IWC Schaffhausen



"THERE'S NO FEELING LIKE IT. SPITFIRE PILOTS OFTEN SAID THE PLANE'S WINGS BECAME THEIR OWN, AND THAT'S EXACTLY THE WAY IT FEELS. YOU FEEL THE ELEMENTS. UNLIKE IN A MODERN JET, YOU KNOW EXACTLY HOW FAST YOU'RE TRAVELLING. IT REALLY FEELS THAT FAST."

— MATT JONES · SPITFIRE-PILOT AND FOUNDER OF BOULTBEE FLIGHT ACADEMY



— MARK 11 —



AN INSTRUMENT FOR THE COCKPIT

THE ICONIC MARK 11 NAVIGATION WATCH INSPIRED BOTH THE DESIGN AND THE FUNCTIONALITY OF IWC'S MODERN PILOT'S WATCHES.

The story of the Pilot's Watches from Schaffhausen began with the Special Pilot's Watch in 1936. It was developed by Hans Ernst and Rudolf Felix Homberger, the sons of IWC's then owner, Ernst Jakob Homberger. Both of them were keen pilots and knew exactly what was needed in a watch designed for the cockpit.

But the most famous Pilot's Watch from Schaffhausen was the Mark 11. Its history is inseparably linked with that of military aviation. Or more precisely, the history of navigation. Because there was no reliable form of electronic navigation at the time, aircraft crews had to make use of celestial navigation to determine their position until the early 1980s. This system, widely used in maritime navigation, determines longitude and latitude using the positions of heavenly bodies like the sun and moon. To do this, we require a sextant and a chronometer, an extremely accurate kind of timepiece.

The navigation watches of the 1940s were already reasonably accurate. But they found it hard to deal with heat and high humidity. A further challenge was posed by the radar screens used during the final approach. They developed strong magnetic fields and could easily disrupt a watch's rate.

For this reason, in 1948 the British Royal Air Force tendered for a navigation watch that had been redesigned from scratch. In response, IWC's engineers developed the Mark 11. It was

powered by the 89 calibre. Its most important feature was effective protection against magnetic fields. A soft-iron case, the upper side of which formed the dial, shielded the movement against magnetism. Furthermore, the front glass was secured to prevent it from being displaced by sudden drops in air pressure in the cockpit. And thanks to a high-contrast black dial featuring luminescent elements, the time was legible at a glance, even at night.

For many years, the Mark 11 was an instrument vital to the survival of the Air Force's pilots and navigators. Even later, after the installation of fail-safe radio beacons, it retained its importance as a reserve navigation system in the event of technical problems. No one other than the Greenwich Royal Observatory was entrusted with servicing it. The watch remained in active service until 1981 and was also used by the South African, Australian and New Zealand air forces.

But the Pilot's Watch Double Chronograph, launched in Schaffhausen in 1992, began the era of the modern Pilot's Watches. Not only its technical functions but also its design were significantly influenced by the historic navigation watch. A little bit of the Mark 11, then, is still to be found to this day in every Pilot's Watch from IWC.



“WHEN I DRAW THE SPITFIRE, I CAN FEEL THE HANDS
OF ITS DESIGNERS. HOW THEY GLIDED OVER THE PAPER
TO CREATE THIS INCREDIBLE SILHOUETTE.”

— ROMAIN HUGAULT · ILLUSTRATOR AND RECREATIONAL PILOT

ENGINEERING MEETS DESIGN

LIKE THE LEGENDARY BRITISH FIGHTER PLANE, OUR SPITFIRE
COLLECTION IS A PERFECT FUSION OF FORM AND FUNCTION.

The Spitfire conceived by Reginald J. Mitchell is still regarded today as a landmark feat of engineering in the history of aviation. The iconic shape of the British fighter plane is the result of a perfect, functional design process. The elliptically shaped wings not only made the propeller-driven plane extremely agile and manoeuvrable but were also responsible for its unique silhouette.

Like the Spitfire, our eponymous watch collection is a perfect blend of form and function. All the Spitfire models are equipped with high-quality IWC-manufactured movements. For the first time ever, we have used a chronograph movement from the 69000-calibre family for the Pilot's Watches and present a Pilot's Chronograph with a reduced case diameter of just 41 millimetres. Also for the first time, automatic movements from the 82000-calibre family are now used for the Pilot's Watches. And finally, the new 32000-calibre family celebrates its debut in the Spitfire line.

The aesthetics of the watches lean on the purist, instrument look of the Mark 11 navigation watch. The colours of the models with their stainless-steel cases, black dials, rhodium-plated hands and green textile straps were inspired by the Spitfire's cockpit. Cases made of bronze, olive-green dials and brown calfskin straps give the other models their distinctive character. Over time, the bronze develops an individual patina all of its own.

The Pilot's Watch Timezoner Spitfire Edition “The Longest Flight” is equipped with the mechanism after which it is named. This special edition was developed with the “Silver Spitfire – The Longest Flight” project in mind, to help the two pilots surmount the problem of changing time zones during their flight with the Spitfire. A simple twist of the bezel is all it takes to set the watch to another time zone. It is the first time we have integrated the patented Timezoner mechanism into a purely IWC-manufactured automatic movement.

The Pilot's Watch UTC Spitfire Edition “MJ271” likewise has a convenient means of setting a second time zone, in this case, however, via the crown. MJ271 was the original registration of the “Silver Spitfire” during its period of service. The Big Pilot's Watch Perpetual Calendar Spitfire represents a technical highlight with the feature for which it is named. It boasts a double moon phase display, which will first require a correction after 577.5 years.

But the backbone of the collection is formed by two models each of the Pilot's Watch Chronograph Spitfire and Pilot's Watch Automatic Spitfire. With diameters of 41 millimetres and 39 millimetres, respectively, the watches are a perfect fit for any wrist.

ROMAIN HUGAULT



THE HEART OF THE TIME MACHINE

ALL THE WATCHES IN THE SPITFIRE COLLECTION ARE DRIVEN BY RUGGED, RELIABLE AND PRECISE IWC-MANUFACTURED MOVEMENTS.

————— The rat-a-tat-tat of the Merlin engine when the Spitfire’s propeller springs into motion. The continuous ticking of the movement as the balance’s evenly spaced oscillations dictate the watch’s speed. The engine and the watch movement are the beating hearts of machines constructed from countless individual components which somehow, incredibly, combine together to make a whole.

In the new Spitfire collection, we make exclusive use of IWC-manufactured calibres to underscore our engineering expertise. Back in 1868, even our founder, Florentine Ariosto Jones, brought the traditional craft of watchmaking together with progressive production techniques. Today, at our new manufacturing centre, we combine craftsmanship with state-of-the-art production technology in precisely the same way. Modern machines provide maximum quality and precision during the production of the often minuscule parts for the movement. During assembly, by contrast, painstaking manual expertise is called for. Only the hand of a skilled watchmaker can make a watch’s heart start to beat.

The IWC-manufactured 52615 calibre is the driving force behind the Big Pilot’s Watch Perpetual Calendar Spitfire. With its solid gold rotor, the Pellaton automatic winding system builds up a 7-day power reserve in the twin barrels. Components in

the winding module subject to particularly hard use are made of wear-resistant ceramic.

The 82000-calibre family includes the IWC-manufactured 82760 calibre, found in the Pilot’s Watch Timezoner Spitfire Edition “The Longest Flight”, and the IWC-manufactured 82710 calibre used in the Pilot’s Watch UTC Spitfire Edition “MJ271”. These two IWC-manufactured movements likewise have a Pellaton winding system featuring ceramic components. They have a power reserve of 60 hours.

The IWC-manufactured 69380 calibre powers the two Spitfire chronographs with diameters of 41 millimetres. The classic column-wheel design of the chronograph movement is among the most significant developments of the IWC-manufactured movements in more recent history and enables recorded times of up to 12 hours. Elapsed hours and minutes are displayed in the subdials at “9 o’clock” and “12 o’clock”. It also has a display for the day and date.

For the first time ever, the Pilot’s Watch Automatic Spitfire features a member of the new 32000-calibre family. The IWC-manufactured 32110 calibre offers an exceptionally high level of ruggedness, reliability and precision. A bidirectional pawl-winding system supplies it with enough energy for a full 3 days.

IWC-MANUFACTURED CALIBRES



32000



69000



82000



52000

32000-CALIBRE FAMILY

Calibre	Height	Diameter ^{a)}	Frequency ^{b)}	Jewels	Winding ^{c)}	Power reserve	Date	Special features	References
32110	4.2 mm	28.2 mm	28,800 A/h / 4 Hz	21	S	3 days	X		3268, 3269

69000-CALIBRE FAMILY

Calibre	Height	Diameter ^{a)}	Frequency ^{b)}	Jewels	Winding ^{c)}	Power reserve	Date	Special features	References
69380	7.9 mm	30 mm	28,800 A/h / 4 Hz	33	S	46 h	X	Chronograph, day of the week	3879, 3891

82000-CALIBRE FAMILY

Calibre	Height	Diameter ^{a)}	Frequency ^{b)}	Jewels	Winding ^{c)}	Power reserve	Date	Special features	References
82710	7.1 mm	30 mm	28,800 A/h / 4 Hz	22	S	60 h	X	UTC display	3271
82760	8.0 mm	30 mm	28,800 A/h / 4 Hz	25	S	60 h	X	Time zone function	3955

52000-CALIBRE FAMILY

Calibre	Height	Diameter ^{a)}	Frequency ^{b)}	Jewels	Winding ^{c)}	Power reserve	Date	Special features	References
52615	9.0 mm	37.8 mm	28,800 A/h / 4 Hz	54	S	7 days	X	Perpetual calendar, double moon phase	5036

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



Matt Jones



Steve Boulton Brooks

— THE LONGEST FLIGHT —



THE SPITFIRE EMBARKS ON ITS LONGEST JOURNEY

STEVE BOULTBEE BROOKS AND MATT JONES PLAN TO CIRCUMNAVIGATE THE GLOBE WITH THE "SILVER SPITFIRE" AND WRITE AVIATION HISTORY.

The Spitfire was designed as a fighter plane for the British Royal Air Force. It wrote history during the Battle of Britain. But thanks to its characteristic, elliptically shaped wings, it is also a genuine design icon. It is the extraordinary story of the engineering behind the Spitfire that fascinates Steve Boulton Brooks and Matt Jones. In the Boulton Flight Academy, the two British pilots have founded the only recognized Spitfire flying school in the world. Now, for the first time in aviation history, the two British pilots plan to fly around the globe in a Spitfire.

They are taking the "Silver Spitfire" on its longest flight ever. The aircraft has been painstakingly restored over a period of 2 years by 14 specialists. An unusual polishing process has given it a high-gloss finish whilst preserving the patina that history has left behind on the metal fuselage of the plane, built in 1943. In a sense, the "Silver Spitfire" has become a reflection of its time. Never has the iconic silhouette of the aircraft, which is normally painted, been made so starkly visible.

The big adventure gets under way next summer at Goodwood, in the south of England. To cover the more than 43,000 kilometres around the world, they will need to divide the flight into about 100 legs. In the course of its journey, the Spitfire will have to cope with a gamut of extreme conditions. The cold of the Russian steppes, the humid heat of tropical Asia, severe weather over the ocean and sandstorms in the desert will place

enormous demands not only on the materials but also on the pilots and ground crew.

FOLLOW THE VOYAGE OF THE "SILVER SPITFIRE":

IWC.COM/EN/THELONGESTFLIGHT.HTML



THE MISSION

FOR THE FIRST TIME IN AVIATION HISTORY, A SPITFIRE WILL CIRCUMNAVIGATE THE GLOBE. IN THE COURSE OF ITS VOYAGE, THE PROPELLER-DRIVEN PLANE WILL COVER 43,000 KILOMETRES AND LAND IN AROUND 30 COUNTRIES.

"THE SPITFIRE IS A GENUINE ICON. THE SHAPE OF ITS WINGS, THE SOUND OF ITS ENGINE - IT MEANS SO MUCH TO SO MANY PEOPLE THE WORLD OVER. AND WE'D LIKE TO TELL THE UNIQUE STORY OF ITS ENGINEERING TO AS MANY PEOPLE AS POSSIBLE."

- STEVE BOULTBEE BROOKS · SPITFIRE PILOT AND FOUNDER OF THE BOULTBEE FLIGHT ACADEMY

THE ROUTE

As a fighter plane with a range of some 750 kilometres, the Spitfire was not designed to fly around the world. On top of that, the Merlin engine requires a major service after just 25 hours in the air. Fuel and original spare parts thus need to be available at every one of the approximately 100 stopovers it will make. The "Silver Spitfire – The Longest Flight" project is therefore a massive logistical challenge. Because a Spitfire has never flown around the world, there is a lack of relevant data, and maximum flexibility is required from everyone involved.

The precise route will depend very much on the weather. At the moment, the rough plan is as follows: from London, the journey will take the crew via Iceland and Greenland to Canada and on to the USA. On this difficult leg of the journey, the crew will benefit from the relatively mild summer weather in the Arctic. After leaving North America behind, the "Silver Spitfire" will probably fly via Alaska and Russia to Japan and China. It will then head for India, before returning via the Middle East to Europe.

THE AIRCRAFT



SPITFIRE LF MK IX

LENGTH: 9.47 M · WINGSPAN: 9.9 M · WEIGHT: 2,309 KG ·
MAXIMUM FLYING ALTITUDE: 43,000 FEET · ENGINE: MERLIN 66
OUTPUT: 1,720 H.P. AT 11,000 FEET
MAXIMUM SPEED: 650 KM/H AT 25,000 FEET

THE SPITFIRE LF MK IX WAS BUILT IN CASTLE BROMWICH IN 1943. DURING ITS TIME IN SERVICE, IT FLEW OVER 50 MISSIONS. AS THE RESTORED "SILVER SPITFIRE", THE AIRCRAFT BEARS A NEW REGISTRATION: G-IRTY.

PILOT'S WATCHES SPITFIRE

PILOT'S WATCH TIMEZONER SPITFIRE
EDITION "THE LONGEST FLIGHT"



REF. IW395501
in stainless steel with
black dial and
green textile strap

Limited edition of 250 watches · Mechanical movement · Pellaton automatic winding · IWC-manufactured 82760 calibre (82000-calibre family) · 60-hour power reserve when fully wound · Date display · Worldtimer function for setting the time zone via the rotating bezel · 24-hour display · Central hacking seconds · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drops in air pressure · Engraving of "The Longest Flight" on case back · Water-resistant 6 bar · Case height 15.2 mm · Diameter 46 mm



PILOT'S WATCHES SPITFIRE

SPITFIRE CHRONOGRAPH

SPITFIRE AUTOMATIC



REF. IW387901
in stainless steel with
black dial and
green textile strap

REF. IW326801
in stainless steel with
black dial and
green textile strap

REF. IW387901: Mechanical chronograph movement · Self-winding · IWC-manufactured 69380 calibre (69000-calibre family) · 46-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 drops in air pressure · Engraving of the Spitfire on case back · Water-resistant ∞ 6 bar · Case height 15.3 mm · Diameter 41 mm

REF. IW326801: Mechanical movement · Self-winding · IWC-manufactured 32110 calibre (32000-calibre family) · 3-day 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 drops in air pressure · Engraving of the Spitfire on case back · Water-resistant ∞ 6 bar · Case height 10.8 mm · Diameter 39 mm



Romain HUGAULT



PILOT'S WATCHES SPITFIRE

SPITFIRE
PERPETUAL CALENDAR



REF. IW503601
in bronze with
green dial and
brown calfskin strap

UTC SPITFIRE
EDITION "MJ271"



REF. IW327101
in bronze with
green dial and
brown calfskin strap

REF. IW503601: Limited edition of 250 watches · Mechanical movement · Pellaton automatic winding · IWC-manufactured 52615 calibre (52000-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 · Small hacking seconds · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drops in air pressure · See-through sapphire-glass back · Water-resistant ∞ 6 bar · Case height 15.4 mm · Diameter 46.2 mm

REF. IW327101: Limited edition of 271 watches · Mechanical movement · Pellaton automatic winding · IWC-manufactured 82710 calibre (82000-calibre family) · 60-hour power reserve when fully wound · UTC function with second time zone display · 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 drops in air pressure · Engraving of the Spitfire on case back · Water-resistant ∞ 6 bar · Case height 14.2 mm · Diameter 41 mm

PILOT'S WATCHES SPITFIRE

SPITFIRE CHRONOGRAPH



REF. IW387902
in bronze with
green dial and
brown calfskin strap

SPITFIRE AUTOMATIC



REF. IW326802
in bronze with
green dial and
brown calfskin strap

REF. IW387902: Mechanical chronograph movement · Self-winding · IWC-manufactured 69380 calibre (69000-calibre family) · 46-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 drops in air pressure · Engraving of the Spitfire on case back · Water-resistant ∞ 6 bar · Case height 15.3 mm · Diameter 41 mm

REF. IW326802: Mechanical movement · Self-winding · IWC-manufactured 32110 calibre (32000-calibre family) · 3-day 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 drops in air pressure · Engraving of the Spitfire on case back · Water-resistant ∞ 6 bar · Case height 10.6 mm · Diameter 39 mm





"THE LOCKHEED P-38 LIGHTNING BREATHES HISTORY. THE FULL TRAGEDY OF SAINT-EXUPÉRY'S FINAL FLIGHT. ALL OF THAT IS PART OF MY SUBCONSCIOUS WHEN I'M DRAWING."

- ROMAIN HUGAULT · ILLUSTRATOR AND RECREATIONAL PILOT

TECHNOLOGY MEETS POETRY

THE FRENCH PILOT AND WRITER ANTOINE DE SAINT-EXUPÉRY HAS INSPIRED A SERIES OF UNIQUE PILOT'S WATCHES.

In 1900, when Antoine de Saint-Exupéry was born, flying was still in its infancy. In 1901, Gustav Whitehead completed the first powered flight in history. It didn't take long before little Antoine got his first bird's-eye view of the world; when he was just 12 years old, a pilot at the Ambérieu-en-Bugey airstrip took him up for a test flight.

From that day on, the boy knew where he belonged. At the age of 21, he served in the military in a unit of the French air force in Strasbourg, after which he obtained his civilian pilot's licence. He then worked as an airfreight pilot for Latécoère, the world's first airmail company, in Africa and South America. His love of flying was to accompany him until the last day of his life. On 31 July 1944, he took off in a Lockheed P-38 Lightning on a reconnaissance flight over the Mediterranean for the Free French Air Forces from which he never returned.

The adventurer and pilot also devoted himself to his second great love: writing. He became world-famous with his novella "The Little Prince"; this impassioned plea for greater humanity and friendship has been translated

into over 350 languages and dialects and is still one of the world's most translated literary works.

The Big Pilot's Watch Constant-Force Tourbillon Edition "Le Petit Prince" is not only the first Pilot's Watch from IWC to feature a tourbillon. It is also the first model with a case made of hard gold. Hard gold is an unusual new version of red gold that is significantly harder and around five to ten times more wear-resistant than conventional red gold. The material is thus the perfect choice for the voluminous case and crown of a Big Pilot's Watch. In addition to the patented constant-force tourbillon, the watch also features a perpetual moon phase display, on whose moon stands the little prince himself. Apart from ten watches in hard gold, a further ten will be available in platinum.

The Pilot's Watch Perpetual Calendar Chronograph Edition "Le Petit Prince", which is limited to 250 watches, is also the first Pilot's Watch to combine a perpetual calendar with a chronograph.



Romain Hugault

PILOT'S WATCHES EDITION "LE PETIT PRINCE"

BIG PILOT'S WATCH
CONSTANT-FORCE TOURBILLON
EDITION "LE PETIT PRINCE"



REF. IW590302
in platinum with
blue dial and
brown calfskin strap



REF. IW590303
in 18-carat hard gold with
blue dial and
brown calfskin strap

REF. IW590302: Limited edition of 10 watches · Mechanical movement · Hand-wound · IWC-manufactured 94805 calibre (94000-calibre family) · 4-day power reserve when fully wound · Power reserve display · Tourbillon with integrated constant-force mechanism at 9 o'clock · Perpetual moon phase display · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant ∞ 6 bar · Case height 13.5 mm · Diameter 46.2 mm

REF. IW590303: Limited edition of 10 watches · Mechanical movement · Hand-wound · IWC-manufactured 94805 calibre (94000-calibre family) · 4-day power reserve when fully wound · Power reserve display · Tourbillon with integrated constant-force mechanism at 9 o'clock · Perpetual moon phase display · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · See-through sapphire-glass back · Water-resistant ∞ 6 bar · Case height 13.5 mm · Diameter 46.2 mm



PILOT’S WATCHES EDITION “LE PETIT PRINCE”

PERPETUAL CALENDAR CHRONOGRAPH
EDITION “LE PETIT PRINCE”



REF. IW 392202
in 18-carat red gold with
blue dial and
brown calfskin strap



Limited edition of 250 watches · Mechanical chronograph movement · Self-winding · IWC-manufactured 89630 calibre (89000-calibre family) · 68-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 · Hour and minute counters combined in a totalizer at 12 o'clock · Flyback function · Small hacking seconds · Rotor in 18-carat gold · Screw-in crown · Sapphire glass, convex, antireflective coating on both sides · Glass secured against displacement by drops in air pressure · See-through sapphire-glass back · Water-resistant 6 bar · Case height 15.9 mm · Diameter 43 mm



A WATCH FOR SUPERSONIC FLIGHT

TOP GUN WATCHES ARE MADE WITH RUGGED MATERIALS SPECIFICALLY FOR THE US NAVY'S ELITE JET PILOTS.

Tortuous manoeuvres and vertical ascents in supersonic jets like the F/A-18E/F Super Hornet, missions lasting months at a time on aircraft carriers in humid, salty sea air: the demands placed on the US Navy's airborne units are extreme and take man and materials to the absolute limit.

Our TOP GUN watches, which we have been making since 2007, take their name from the US Navy's gruelling "Strike Fighter Tactics Instructor" (SFTI) course, aka Top Gun. Only the most accomplished pilots are selected for this taxing training module. Here, they learn comprehensive flying and tactical knowledge, which they subsequently take back with them to their operative units. TOP GUN models are built specially for these pilots using extremely resilient and corrosion-resistant materials, such as ceramic and titanium. Hard, scratch-resistant ceramic is perfect for everyday use in a restricted space like an aeroplane cockpit. The matte black material also ensures that pilots are not distracted by the watch reflecting sunlight.

In the new TOP GUN line, we present the Pilot's Watch Double Chronograph TOP GUN Ceratanium, the first IWC Pilot's Watch with a case made of Ceratanium®. Developed by IWC, this trailblazing material combines the advantages of titanium and ceramic. It is as

light and unbreakable as titanium, but also as hard and scratch-resistant as ceramic. Other compelling features are its excellent skin friendliness, high corrosion-resistance and the attractive matte black colour. For the first time ever, it meant we could make every single component in the watch, such as the push-buttons and pin buckle, completely in a "Jet Black" design.

We are also unveiling the first Pilot's Watch in sand-coloured ceramic. The Pilot's Watch Chronograph TOP GUN Edition "Mojave Desert" takes its name from the location of Naval Air Weapons Station China Lake – the US Navy's largest single landholding. The colour, which is an excellent match for the flying suits worn by Navy pilots, results from a combination of zirconium oxide with other metallic oxides.

For the first time, we have equipped the iconic TOP GUN chronograph with an IWC-manufactured movement from the 69000-calibre family. The Pilot's Watch Automatic TOP GUN is powered by the IWC-manufactured 32110 calibre. Both of these watches are housed in cases made of black zirconium oxide.

Romain Hugault



INNOVATIVE MATERIALS

EXTREMELY HARD AND SCRATCH-RESISTANT MATERIALS LIKE CERATANIUM® AND ZIRCONIUM OXIDE ENSURE MAXIMUM ROBUSTNESS.

— In 1980 we unveiled our first wristwatch housed in a titanium case. The next world premiere followed in 1986, when we launched the first watch in black zirconium oxide. Since then, our engineers have amassed a unique pool of expertise in the development and processing of innovative case materials.

The most recent groundbreaking innovation to emerge from Schaffhausen is Ceratanium®. This new material is as light and unbreakable as titanium, but also as hard and scratch-resistant as ceramic. Ceratanium® is based on a special titanium alloy, which is made exclusively for us. The production of the alloy comprises a complex, multistage process because the raw material requires an extremely high degree of purity. All the case components are milled, turned and drilled from the same blank. Finally, the parts are heated in an oven. During this stage, oxygen diffuses into the material, phase transition occurs and the surface of the material is ceramized. As a result, it assumes the properties typical of a ceramic, such as extreme hardness and scratch-resistance, as well as its characteristic matte black colour. Unlike the coatings in widespread use today, such as DLC, the surface is inseparably bonded with the material. As a result it cannot flake off or chip when the watch is knocked against another object. The new material has also made it possible for other components, such as the push-buttons and pin buckle, to have a completely black finish.

Apart from Ceratanium®, we also use black and sand-coloured zirconium oxide for the TOP GUN line. This high-tech material, which is also employed in aerospace applications, is one of the hardest substances on earth. The secret of its astonishing hardness lies in the specific composition of the chemical elements. Engineering ceramics combine a metal with a non-metallic element: in the case of zirconium oxide, zirconium with oxygen. An additional factor is the high degree of purity of the original materials; this is the main difference between them and the ceramics used for domestic purposes. Finally, the production process, which in engineering terms is honed to perfection, plays a key role. Special additives, for instance, ensure that even the tiniest ceramic particles bond together physically during sintering in the oven.

Both black and sand-coloured ceramic are made using individual formulas. To achieve these colours, zirconium oxide in powder form is mixed with other metallic oxides. Precisely how remains the engineers' secret.



PILOT'S WATCHES TOP GUN

DOUBLE CHRONOGRAPH
TOP GUN CERATANIUM



REF. IW371815
in Ceratanium® with
black dial and
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 · 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 drops in air pressure ·
Engraving of the TOP GUN insignia on case back · Water-resistant 6 bar · Case height 16.8 mm · Diameter 44 mm

PILOT'S WATCHES TOP GUN

CHRONOGRAPH TOP GUN



REF. IW389101
in ceramic with
black dial and
black textile strap



Mechanical chronograph movement · Self-winding · IWC-manufactured 69380 calibre (69000-calibre family) · 46-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 drops in air pressure · Engraving of the TOP GUN insignia on case back · Water-resistant 6 bar · Case height 15.7 mm · Diameter 44.5 mm

PILOT'S WATCHES TOP GUN

AUTOMATIC TOP GUN



REF. IW326901
in ceramic with
black dial and
black textile strap

Mechanical movement · Self-winding · IWC-manufactured 32110 calibre (32000-calibre family) · 3-day 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 drops in air pressure · Engraving
of the TOP GUN insignia on case back · Water-resistant ∞ 6 bar · Case height 11.4 mm · Diameter 41 mm

PILOT'S WATCHES TOP GUN

CHRONOGRAPH TOP GUN
EDITION "MOJAVE DESERT"



REF. IW389103
in ceramic with
dark brown dial and
tan-coloured textile strap

Limited edition of 500 watches · Mechanical chronograph movement · Self-winding · IWC-manufactured 69380 calibre (69000-calibre family) · 46-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 drops in air pressure · Engraving of the TOP GUN insignia on case back · Water-resistant ∞ 6 bar · Case height 15.7 mm · Diameter 44.5 mm



IMAGES

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For this catalogue, 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 INFORMATION

Technical and other specifications may change without notice, and all models and product lines are subject to availability. The information provided here refers either 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 only available at additional cost and 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. It should furthermore be noted that, when natural materials (e.g. leather) are used, 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, these functional jewels are made of industrial-standard rubies. They are used for bearings, levers and intermeshing elements as well as parts of the escapement and the balance and spring, but are also found in certain components 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. Depend-

ing 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”.

Ceratanium® is made of a titanium alloy, the surface of which undergoes a specific form of heat treatment and is converted into a ceramic coating. This so-called diffusion layer grows on the surface and is not a coating in the conventional sense. As a result, Ceratanium® is particularly resilient and scratch-resistant. It is about 33 per cent lighter than steel and very skin-friendly.

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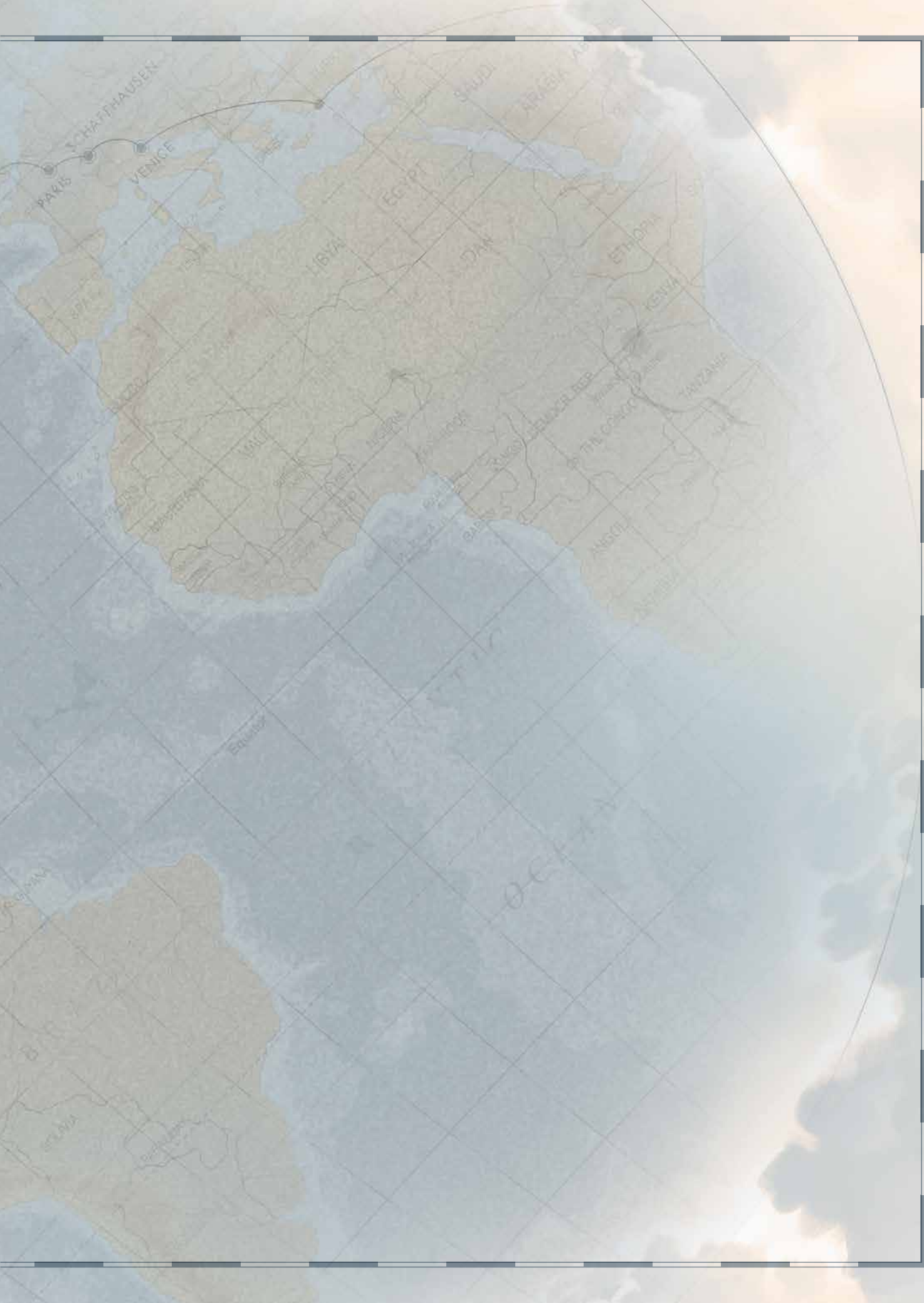
Hard gold is a special kind of red gold alloy that has an improved microstructure which is significantly harder. Under normal wearing conditions, hard gold is around five to ten times more wear-resistant than conventional red gold alloys.

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