



PANERAI  
LABORATORIO DI IDEE.

2 0 1 3



When someone appraises a work of human ingenuity, whether it be a piece of writing or music, or a drawing, or a design, or indeed any other thing, and declares that “It’s a classic”, there are three stages in its existence: the past, the present and the future. Such a work is deemed “a classic” when it transcends these three stages of actual time, that is to say, when it exists in an ideal period with material, aesthetic and moral values where it is no longer affected by the passage of the hours, the seasons and the years.

To be classic is to be both universal and timeless.

But in order to judge whether or not a creation is really a classic, the first step any scholar, expert, connoisseur or enthusiast must take is to uncover the memory and history of the creation itself, bringing to light its traditions and recognising its values, so that the continuance of these qualities over time and space since the moment it was completed can be checked.

The truth of history is the starting point for testing the originality, authenticity and identity of a work of human ingenuity, whether it be large or small.

In the world of today, with its invented and even imaginary histories that go beyond customary limits and values, it is only proper that Officine Panerai should, for the first time tell the true story of its craftsmen and specialists in the field of time. This it has done, using hitherto unpublished texts and photographs, covering everything from the very beginning to the present day.

This is the background which proves the modern qualities of Panerai’s creations today, and which will ensure their innovation in the future. The unchanging traditions which guarantee the quality with which these creations have been endowed make it possible to say of any of these works of the human mind: “It’s a classic”.

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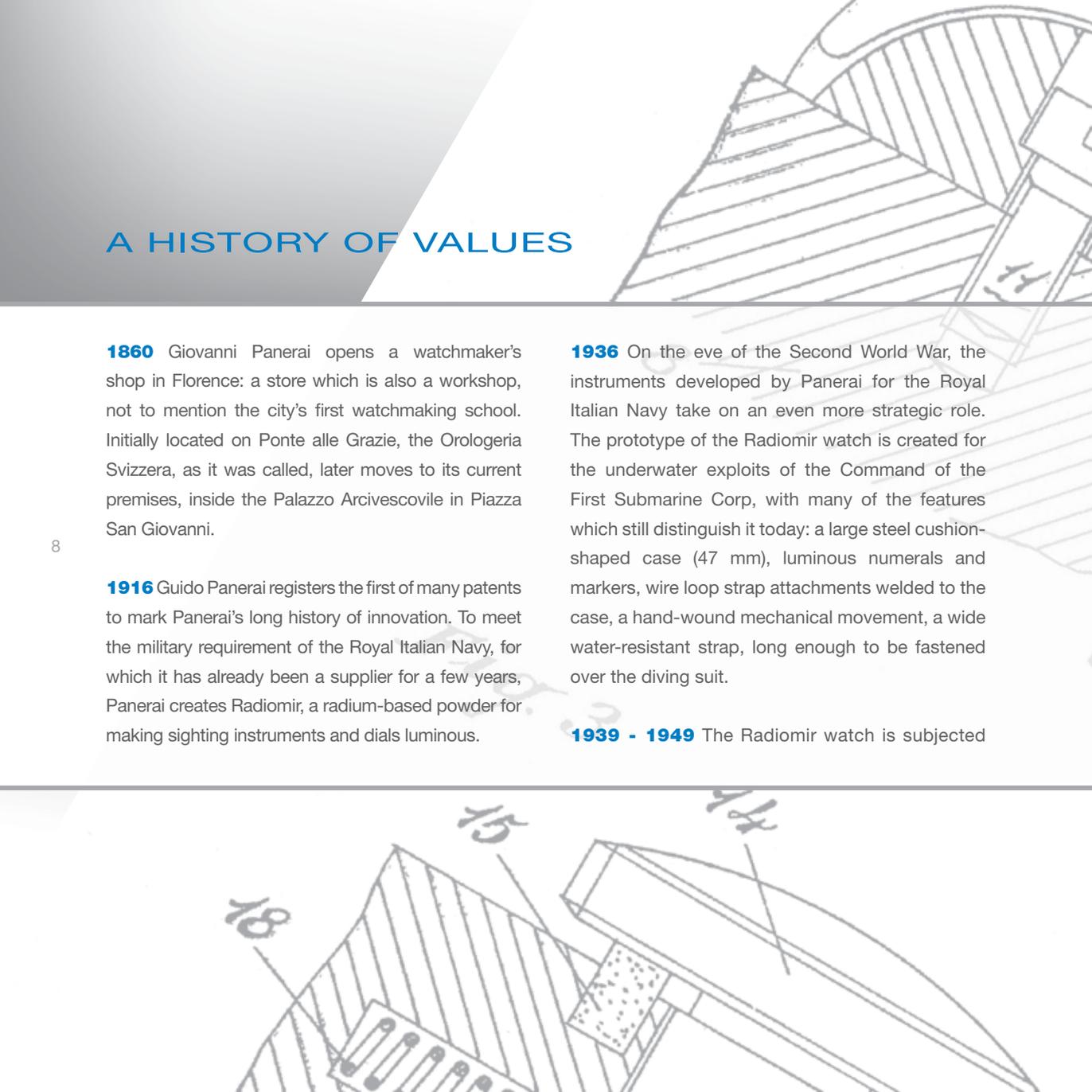
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## A HISTORY OF VALUES



**1860** Giovanni Panerai opens a watchmaker's shop in Florence: a store which is also a workshop, not to mention the city's first watchmaking school. Initially located on Ponte alle Grazie, the Orologeria Svizzera, as it was called, later moves to its current premises, inside the Palazzo Arcivescovile in Piazza San Giovanni.

**1916** Guido Panerai registers the first of many patents to mark Panerai's long history of innovation. To meet the military requirement of the Royal Italian Navy, for which it has already been a supplier for a few years, Panerai creates Radiomir, a radium-based powder for making sighting instruments and dials luminous.

**1936** On the eve of the Second World War, the instruments developed by Panerai for the Royal Italian Navy take on an even more strategic role. The prototype of the Radiomir watch is created for the underwater exploits of the Command of the First Submarine Corp, with many of the features which still distinguish it today: a large steel cushion-shaped case (47 mm), luminous numerals and markers, wire loop strap attachments welded to the case, a hand-wound mechanical movement, a wide water-resistant strap, long enough to be fastened over the diving suit.

**1939 - 1949** The Radiomir watch is subjected



to a series of innovations aimed at improving its performance: the new sandwich dial is made more luminous and easier to read; the strap attachments become more resistant and are made from the case itself; and the distinctive device protecting the winding crown is invented, secured with screws to protect the crown. Thanks to these innovations which make it more resistant and watertight, the new Panerai watch becomes the first underwater model (to depths of 200 m) in the history of horology. At the same time, radioactive Radiomir is replaced by Luminor, an isotope of tritium-based hydrogen, patented by Panerai for the first time in Italy in 1949.

**1943** Officine Panerai presents the prototype of the first Panerai chronograph, the Mare Nostrum, designed for deck officers.

**1956** Panerai develops an underwater Radiomir watch of exceptional size and solidity for the Egyptian Navy, known as “L’Egiziano”, fitted with a marked bezel for calculating immersion times. In the same year, the patent is registered for the device protecting the winding crown which becomes the trademark of the Luminor models.

**1972** Giuseppe Panerai, son of Guido, dies, and position as supplier to the Italian Navy still covered by

2012

military secret, is handed over to engineer Dino Zei, who creates the “Officine Panerai” trademark.

**1993** The first commercial collection by Officine Panerai: three limited edition models inspired by those created for Second World War Navy Commandos.

**1997** Officine Panerai is acquired by the Richemont Group (then Vendôme), which establishes a network of qualified distributors in Italy.

**1998** Officine Panerai is launched on the international market.

**2001** The Panerai Boutique is inaugurated, following restyling, at the historical site in Piazza San Giovanni in Florence, after the purchase of the family boutique by Officine Panerai. This Bottega d’Arte represents a meeting point for enthusiasts and collectors of the brand who can find here, in addition to the current collection, special editions and production runs which Panerai reserves exclusively for its boutiques.

**2002** Opening of the Officine Panerai Manufacture in Neuchâtel, Switzerland. The first Panerai Boutique in Asia opens in the Prince’s Building in Hong Kong.

1860



**2005** International launch of the first Panerai movement, P.2002: a hand-wound calibre with GMT function and 8-day power reserve, inspired by the Angelus movement of the 1940s.

**2007** Officine Panerai presents three new calibres entirely conceived and developed in-house: P.2003, P.2004 and P.2005, with an innovative tourbillon escapement.

**2008 - 2009** Launch of the P.9000 and P.2006 movements. Presentation of Eilean, the bermudian ketch built in 1936 in the legendary Fife boatyard, purchased and restored by Officine Panerai.

**2010** Launch of the P.999 calibre and Panerai Jupiterium, a tribute to the 400<sup>th</sup> anniversary of the first celestial observations made by tuscan genius Galileo Galilei with his telescope. Launch of the first watch in Panerai Composite.

**2011 - 2012** Launch of the P.3000 calibre and of the first watch in bronze. Presentation of the vintage case inspired by the Radiomir of the 1940s.

**2013** Officine Panerai presents two in-house movements: P.9100 and P.9100/R.



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HISTORIC COLLECTION

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Luminor Panerai late 1940s – early 1950s

# LUMINOR

Taking advantage of its experience in making precision instruments, Panerai created in the 1940s the first Luminor, a reliable watch, resistant and easily readable under any conditions: adapted to the extreme military use for which it was intended.

The distinctive characteristics that still today make it a unique watch with an original personality are:

- the dial of large size, simple and easily legible even in the dark or under water;
- the lever device protecting the winding crown (protected as a trademark), which guards the winding crown from shocks and accidental movements, preventing the hands being inadvertently shifted and contributing to the water tightness of the crown, ensuring its resistance to water even at great depths;
- highly reliable movements, transformed by Panerai according to the criteria of traditional Swiss watchmaking.

## TECHNICAL SPECIFICATIONS:

Luminor Base: Hand-wound mechanical movement, exclusive Panerai OP X calibre, 16½ lignes, 17 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Swan's neck regulator. Power reserve 56 hours. Côtes de Genève decoration on the bridges.

Luminor Base Logo: Hand-wound mechanical movement, exclusive Panerai OP I calibre, 16½ lignes, 17 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Power reserve 56 hours.

Luminor Marina Logo: Hand-wound mechanical movement, exclusive Panerai OP II calibre, 16½ lignes, 17 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Power reserve 56 hours. It is tested and certified by C.O.S.C. (Contrôle Officiel Suisse des Chronomètres).

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Luminor Base  
Logo - 44mm



PAM00000



Luminor Marina  
Logo - 44mm

PAM00005

## Luminor Base - 44mm



PAM00114



Luminor Base - 44mm

PAM00112

20

Luminor Base  
Titanio - 44mm



PAM00176



LUMINOR

PANERAI

SWISS L



## LUMINOR MARINA

In order to reduce the frequency of the winding operation, in about 1950 Panerai adopted an 8-day Angelus movement for the Luminor, with the small seconds dial at the 9 o'clock position, which still today is the distinctive feature of Panerai watches.

The Luminor Marina is fitted with a movement transformed by Panerai according to the standards of traditional Swiss watchmaking and the quality criteria of the brand.

### TECHNICAL SPECIFICATIONS:

Hand-wound mechanical movement, exclusive Panerai OP XI calibre, 16½ lignes, 17 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Swan's neck regulator. Power reserve 56 hours. Côtes de Genève decoration on the bridges. It is tested and certified by C.O.S.C.

## Luminor Marina - 44mm



PAM00113



Luminor Marina - 44mm

PAM00111

Luminor Marina  
Titanio - 44mm



PAM00177

LUMINOR  
MARINA

PANERAI





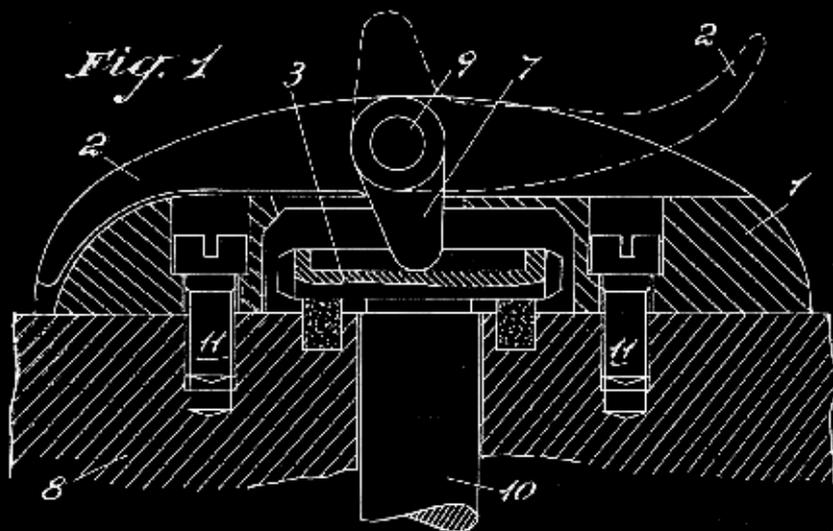
## LUMINOR BASE LEFT-HANDED

In the 1940s, the characteristic Panerai device with a lever locking the crown was fitted to the left-hand side of the case, meeting the needs of the Naval frogmen who wanted to wear the watch on the right wrist, since they already wore a compass or a depth gauge on the left. Recalling this technical-functional ingenuity, Panerai has researched and perfected a special watch for left-handers and others who prefer to wear their watch on the right wrist: the Panerai Luminor Base Left-Handed. The distinctive features compared with the

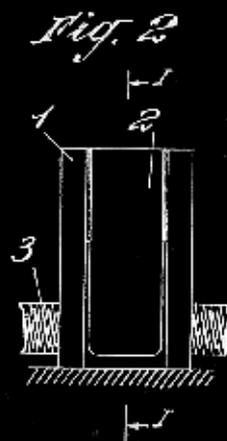
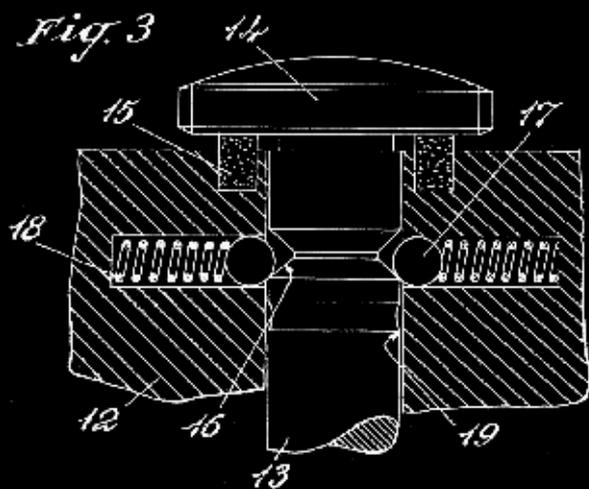
Luminor Base, resulting from the specially designed movement, are the winding crown and the device protecting the crown on the left side of the case.

### TECHNICAL SPECIFICATIONS:

Hand-wound mechanical movement, exclusive Panerai OP X calibre, 16½ lignes, 17 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Swan's neck regulator. Power reserve 56 hours. Côtes de Genève decoration on the bridges.



545368





Luminor Base  
Left-Handed - 44mm

PAM00219



Radiomir Panerai late 1930s

## RADIOMIR

The Panerai Radiomir Black Seal (steel or ceramic case) reproduces the design of the first, historic watch created by Officine Panerai in 1938 for the Royal Italian Navy.

This watch was distinguished by the structure of its case which ensured a particularly high degree of water-resistance through its screw-down winding crown and screw back, while the use of Radiomir, a luminous paint based on zinc sulphide, mesothorium and radium bromide, gave the dial maximum visibility even in the most unfavourable conditions.

The Radiomir Historic Collection is enriched by the Radiomir watch in black ceramic.

The choice of using this high-tech material, particularly interesting both from an aesthetical and a technical point of view, represents the development of the concept of technical experimentation which is constantly pursued by Panerai. The ceramic used is zirconium oxide and it is moulded from powder using a process of isostatic pressure.

In this way all the special features of this material are enhanced: its extreme hardness

(up to five times greater than steel), its strong resistance to a wide range of temperatures, and the fact that when worn for long periods the watch does not become scratched, damaged or corroded.

### TECHNICAL SPECIFICATIONS:

Radiomir Black Seal: Hand-wound mechanical movement, exclusive Panerai OP XI calibre, 16½ lignes, 17 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Power reserve 56 hours. Swan's neck regulator. Côtes de Genève decoration on the bridges.

Radiomir Black Seal Logo: Hand-wound mechanical movement, exclusive Panerai OP II calibre, 16½ lignes, 17 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Power reserve 56 hours.

The OP II and OP XI calibres are tested and certified by C.O.S.C.

RADIOMIR  
BLACK SEAL

PANERAI





Radiomir Black Seal  
Logo - 45mm

PAM00380

Radiomir  
Black Seal - 45mm



PAM00183



Radiomir Black Seal  
Ceramica - 45mm

37

PAM00292



## P.999 MOVEMENT

The P.999 is a mechanical movement combining reliability, robustness and precision and featuring the special structure with wide separated bridges that characterizes all the other Officine Panerai manufacture calibres.

With a 12 ligne diameter, equal to 27.4 mm, and a thickness of 3.4 mm, the P.999 calibre is slightly smaller than the other Officine Panerai calibres making it ideal for models which are smaller, both in diameter and in thickness, than the historical watches.

With 19 jewels, a single barrel providing a 60-hour power reserve and small seconds at 9 o'clock, the calibre is made up of 154 components and beats time at a frequency of 3 Hz: this means that its balance wheel makes 21,600 alternations/hour. Equipped with adjusting screws, the balance wheel is protected by an Incabloc® anti-shock device while the regulating system has a swan's neck regulator – in the movement of the red gold versions.

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### TECHNICAL SPECIFICATIONS:

Radiomir and Radiomir 1940 in steel: Hand-wound mechanical movement, Panerai P.999/1 calibre, executed entirely by Panerai, 12 lignes, 3 mm thick, 19 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Power reserve 60 hours. 144 components.

Radiomir and Radiomir 1940 in red gold: Hand-wound mechanical movement, Panerai P.999 calibre, executed entirely by Panerai, 12 lignes, 3.4 mm thick, 19 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Swan's neck regulator. Power reserve 60 hours. 154 components.

40

Radiomir - 42mm



PAM00337



Radiomir  
Oro Rosso - 42mm

41

PAM00439

42

Radiomir 1940 - 42mm



PAM00512



THE PANEEF



NINETEEN (19) JEWELS



Radiomir 1940  
Oro Rosso - 42mm

45

PAM00513



## P.3000 – P.3001 – P.3002 MOVEMENTS

The P.3000 calibre, created entirely in the Panerai Manufacture, is available in three versions – P.3000, P.3001 and P.3002.

The diameter of the calibre is 16½ lignes, a substantial size which traces its origins from that of the movements which were fitted to the historic Panerai models. The movement has 21 jewels and it uses two spring barrels connected in series. Such an arrangement enables long, thin springs to be used, which ensures the delivery of a more even force and also does so over a longer period of time, with a power reserve of 3 days.

With brush-finished bridges and chamfered angles – that is, with the angles smoothed and polished – the P.3000 calibre is also fitted with the device for the rapid adjustment of the time: a star wheel with 12 points and a small spring clutch enable the hour hand to be moved one hour at a time, without interfering with the movement of the minute hand or the operation of the watch.

The P.3000, P.3001 and P.3002 movements may feature the date or GMT functions. The P.3001 has the power reserve indicator visible on the back, the P.3002 has the power reserve indicator visible on the dial.

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### TECHNICAL SPECIFICATIONS:

P.3000: Hand-wound mechanical movement, executed entirely by Panerai, 16½ lignes, 5.3 mm thick, 21 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Power reserve 3 days, two barrels. 160 components\*.

P.3001: Hand-wound mechanical movement, executed entirely by Panerai, 16½ lignes, 6.3 mm thick, 21 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Power reserve 3 days, two barrels, seconds reset device. 207 components\*.

P.3002: Hand-wound mechanical movement, executed entirely by Panerai, 16½ lignes, 6.3 mm thick, 21 jewels, Glucydur® balance, 21,600 alternations/hour. Incabloc® anti-shock device. Power reserve 3 days, two barrels, seconds reset device. 208 components\*.

\*The number of components varies according to the functions displayed on the watch.

Radiomir California  
3 Days - 47mm



PAM00424



Radiomir S.L.C.  
3 Days - 47mm

PAM00425





Radiomir Composite®  
3 Days - 47mm

PAM00504

Radiomir 3 Days GMT  
Oro Rosso - 47mm



PAM00421

GENERAL

CAL. P. 3001  
SWISS MADE

6  
2 1 0  
DAYS

TWENTY-ONE  
(21) JEWELS

010000

50m

1860



54

Radiomir 1940  
3 Days - 47mm



PAM00514



Radiomir 1940  
3 Days Oro Rosso - 47mm

55

PAM00515





Luminor 1950  
3 Days - 47mm

PAM00372

Luminor Marina 1950  
3 Days - 47mm



PAM00422



Luminor 1950 3 Days  
Power Reserve - 47mm

PAM00423



## P.2002 MOVEMENT

The P.2002 hand-wound calibre is the progenitor of the P.2000 series and it takes its name from the year in which the project was launched to supply Panerai watches with movements entirely designed and developed in the Manufacture in Neuchâtel.

The P.2002 calibre consists of 247 components; it has 21 jewels and a thickness of 6.6 millimetres. Hand-wound and with a power reserve of 8 days, it has the characteristics peculiar to all the calibres of the P.2000 series: great structural strength; three spring barrels; GMT function with 24-hour indicator; seconds reset device; rapid adjustment of local time; free-sprung balance; balance wheel oscillating at 28,800 alternations per hour (a frequency which is unusual in a movement with a large power reserve). The three spring barrels in series, the design of which is an Officine Panerai patent, ensures the delivery of an even, optimal force which remains stable for 8 days, thus delivering a force which is constant for all the days of the power reserve.

The P.2002 calibre also has the seconds reset device which resets the seconds hand to zero, enabling the watch to be synchronised perfectly with a reference time signal. The operation of the system designed by Officine Panerai is very special: when the winding crown is pulled out to the second position, a thin blade moves into contact with the balance wheel, stopping it. At the same time, a small hammer lever moves downwards and acts on a heart-shaped cam which instantly moves the seconds hand to the zero position. As soon as the winding crown is returned to the normal position, the balance wheel is freed, the hammer lever is raised, thus releasing the cam, and the seconds hand resumes its normal course.

### TECHNICAL SPECIFICATIONS:

Hand-wound mechanical movement, executed entirely by Panerai, 13¼ lignes, 6.6 mm thick, 21 jewels, Glucydur® balance, 28,800 alternations/hour. KIF Parechoc® anti-shock device. Power reserve 8 days, three barrels, seconds reset device. 247 components\*.

\*The number of components varies according to the functions displayed on the watch.

Radiomir 8 Days  
Titanio - 45mm



PAM00346



Radiomir 8 Days  
Ceramica - 45mm

PAM00384

Luminor 1950 8 Days  
GMT - 44mm



PAM00233



Luminor 1950 8 Days  
GMT Oro Rosa - 44mm

65

PAM00289



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CONTEMPORARY COLLECTION

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## LUMINOR MARINA AUTOMATIC

The Luminor Marina Automatic range consists of watches with cases 44 mm or 40 mm in diameter, fitted with a Swiss automatic mechanical movement: the Panerai calibre OP III. The Luminor Marina Automatic 44 mm is available with a case in polished or brushed steel with an alligator strap or with a case in brushed steel with metal bracelet. The 40 mm version has a brushed steel case and is available with an alligator strap.

The strap is made from selected alligator skins and is available in various colours, as well as black and brown.

The exclusive metal bracelet appears to be a perfect extension of the case. It has a special “suppleness” achieved by the

particular way in which the links are shaped. All Panerai Luminor Marina Automatic watches use a special device for changing the strap or the bracelet. A tool, supplied in the box, enables this operation to be carried out with simplicity and precision.

### TECHNICAL SPECIFICATIONS:

Automatic mechanical movement, exclusive Panerai OP III calibre, 13¼ lignes, 21 jewels, PANERAI personalized oscillating weight. Glucydur® balance, 28,800 alternations/hour. Incabloc® anti-shock device. Power reserve 42 hours. Côtes de Genève decoration on the bridges. It is tested and certified by C.O.S.C.

70

Luminor Marina  
Automatic - 44mm



PAM00104



Luminor Marina  
Automatic - 44mm

PAM00164





Luminor Marina  
Automatic - 44mm

PAM00299

Luminor Marina  
Automatic - 40mm



PAM00048



Luminor Marina  
Automatic - 40mm

75

PAM00049



## LUMINOR SUBMERSIBLE

This watch is the development in the modern style of a model designed for the Egyptian Navy in 1956, which was fitted with an 8-day Angelus movement, a small seconds dial at 9 o'clock, a very large case, and a rotating bezel with reference markers enabling the duration of a dive to be quickly read. The new model inherits the historic model's striking personality, demonstrated by the watch's characteristic bezel, as well as by its reliability under extreme conditions of use. The movement of the bezel is of radial design, using a metal ring-shaped element which significantly improves the precision of the click, as well as ensuring that the bezel has the greatest possible resistance to wear and to high temperatures. Patent filed for this system.

The adoption of an automatic mechanical

movement gives it even greater functionality than its forebear, a testimony to the continuous technical development carried out by Panerai with its constant dedication to achieving the highest standards of quality and reliability. All Panerai Luminor Submersible watches use a special device for changing the strap. A tool, supplied in the box, enables this operation to be carried out with simplicity and precision.

### TECHNICAL SPECIFICATIONS:

Automatic mechanical movement, exclusive Panerai OP III calibre, 13¼ lignes, 21 jewels, PANERAI personalized oscillating weight. Glucydur® balance, 28,800 alternations/hour. Incabloc® anti-shock device. Power reserve 42 hours. Côtes de Genève decoration on the bridges. It is tested and certified by C.O.S.C.

Luminor  
Submersible - 44mm



PAM00024  
Divers professional



PAM00025  
Divers professional

Luminor  
Submersible Titano - 44mm



## LUMINOR GMT

This model takes its inspiration from the world of the sea. The zero or Greenwich meridian is of primary importance for navigators: the time at Greenwich is the reference for the calculations that enable longitude to be determined and therefore the position of a ship to be established.

Very practical today, the GMT function of the Panerai Luminor enables the local time and the time elsewhere to be read simultaneously, signalled on the dial by an appropriate indicator. The automatic movement, calibre Panerai OP VIII makes this watch even more exclusive and unique, not only from the technical point of view but also at the aesthetic level, preserving the small seconds dial at 9 o'clock like the original.

The model is available with a 44 mm case with alligator strap or metal bracelet or 40 mm case with alligator strap.

All Panerai Luminor GMT watches use a special device for changing the strap or the bracelet. A tool, supplied in the box, enables this operation to be carried out with simplicity and precision.

### TECHNICAL SPECIFICATIONS:

Automatic mechanical movement, exclusive Panerai OP VIII calibre, 13¼ lignes, 21 jewels, PANERAI personalized oscillating weight. Glucydur® balance, 28,800 alternations/hour. Incabloc® anti-shock device. Power reserve 42 hours. Côtes de Genève decoration on the bridges. It is tested and certified by C.O.S.C.

## Luminor GMT - 44mm



PAM00088



Luminor GMT - 44mm

PAM00297



LUMINOR  
GMT

28

PANERAI  
Automatic



PAM00244

Luminor GMT - 40mm

85



## LUMINOR POWER RESERVE

The power reserve is a complication much appreciated by connoisseurs and enthusiasts of haute horlogerie.

It enables the amount of time remaining before it is necessary to wind the movement again to be checked at any moment, by reading the appropriate indicator on the dial.

This function has been perfected by the skill of Swiss master watchmakers who have created a transmission device in which the winding of the spring barrel and the rotation of the movement are linked by an indicator showing the power reserve.

The display changes little by little as the spring transmits the stored energy to the train of the movement.

In the Panerai Luminor Power Reserve, this

complex horological function is controlled by an exclusive automatic mechanical movement: the Panerai calibre OP IX.

All Panerai Luminor Power Reserve watches use a special device for changing the strap. A tool, supplied in the box, enables this operation to be carried out with simplicity and precision.

### TECHNICAL SPECIFICATIONS:

Automatic mechanical movement, exclusive Panerai OP IX calibre, 13¼ lignes, 21 jewels, PANERAI personalized oscillating weight. Glucydur® balance, 28,800 alternations/hour. Incabloc® anti-shock device. Power reserve 42 hours. Côtes de Genève decoration on the bridges. It is tested and certified by C.O.S.C.

Luminor  
Power Reserve - 44mm



PAM00090



Luminor  
Power Reserve - 40mm

PAM00241



## LUMINOR CHRONO

The Panerai Luminor Chrono, entirely made of AISI 316L stainless steel, is a high precision sports chronograph fitted with a movement with chronograph functions on three counters, the Panerai OP XII calibre.

The inscription "Daylight", displayed on the dial at 12 o'clock, brings back into the limelight a name reserved by Officine Panerai for a "very special" client.

Daylight is the title of a successful film starring Sylvester Stallone made a few years ago. Several series of Panerai watches bearing this name have been produced at the special request of the American actor.

All Panerai Luminor Chrono watches use a special device for changing the strap. A tool, supplied in the box, enables this operation to be carried out with simplicity and precision.

### TECHNICAL SPECIFICATIONS:

Automatic mechanical movement, exclusive Panerai OP XII calibre, 13¼ lignes, 27 jewels, PANERAI personalized oscillating weight. Glucydur® balance, 28,800 alternations/hour. Incabloc® anti-shock device. Power reserve 46 hours. Côtes de Genève decoration on the bridges. It is tested and certified by C.O.S.C.



LUMINOR  
PANERAI  
Daylight

20  
10

9  
6  
3

28

L SWISS  
MADE L



Luminor Chrono  
Daylight - 44mm

PAM00356



## P.9000 – P.9001 – P.9002 MOVEMENTS

The P.9000 calibre, created entirely by Officine Panerai and used in a series of Luminor 1950 and Radiomir models, is available in three versions - P.9000, P.9001 and P.9002.

The calibres are fitted with different functions, but they all have a diameter of 13¼ lignes and numerous features in common: two barrels which guarantee 72 hours of power reserve; a single piece rotor which winds by moving in both directions thanks to an automatic ratchet device; a balance wheel with adjustment screws, oscillating at a frequency of 4 Hz; a date display and stop balance wheel device which enables the time to be synchronized with a reference time signal.

To house these movements, a specially made version of the Luminor 1950 case has been designed, keeping the proportions of the original but holding a slightly less convex sapphire crystal which only barely protrudes from the bezel.

95

### TECHNICAL SPECIFICATIONS:

P.9000: Automatic mechanical movement, executed entirely by Panerai, 13¼ lignes, 7.9 mm thick, 28 jewels, Glucydur® balance, 28,800 alternations/hour. Incabloc® anti-shock device. Power reserve 3 days, two barrels. 197 components.

P.9001: Automatic mechanical movement, executed entirely by Panerai, 13¼ lignes, 7.9 mm thick, 29 jewels, Glucydur® balance, 28,800 alternations/hour. Incabloc® anti-shock device. Power reserve 3 days with indicator on the back, two barrels, seconds reset device. 229 components.

P.9002: Automatic mechanical movement, executed entirely by Panerai, 13¼ lignes, 7.9 mm thick, 29 jewels, Glucydur® balance, 28,800 alternations/hour. Incabloc® anti-shock device. Power reserve 3 days, two barrels, seconds reset device. 237 components.

Radiomir Black Seal  
3 Days Automatic - 45mm



PAM00388



HT (28) JEWELS

CAL. P. 9000

8011708

58 00000000



REG. PAT. PANERAI

REG. PAT. 1860

Luminor Marina 1950  
3 Days Automatic - 44mm



PAM00312



Luminor Marina 1950  
3 Days Automatic - 44mm

PAM00328



LUMINOR  
MARINA

28

PANERAI

REG.

T.M.

L SWISS

MADE L



Luminor Marina 1950  
3 Days Automatic - 44mm

PAM00359

102

Radiomir Composite®  
Black Seal  
3 Days Automatic - 45mm



PAM00505



RADIOMIR  
BLACK SEAL

28

PANERAI

L SWISS  
MADE L

104

Luminor Marina 1950  
3 Days Automatic  
Titanio - 44mm



PAM00351



Luminor Marina 1950  
3 Days Automatic  
Titanio - 44mm

105

PAM00352

106

Luminor Marina 1950  
3 Days Automatic - 42mm



PAM00392



LUMINOR  
MARINA

28

PANERAI

MADE L

108

Luminor Marina 1950  
3 Days Automatic  
Oro Rosso - 42mm



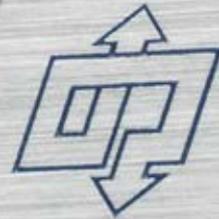
PAM00393

OFFICINE PANERAI

EIGHT (28) JEWELS

CAL. P. 9000 02032

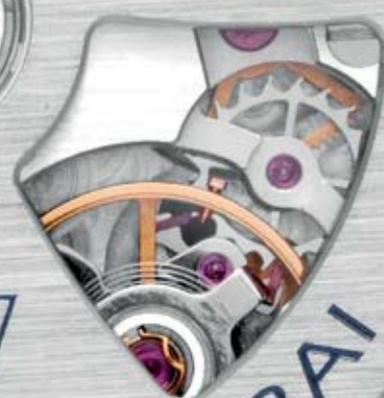
TWO SWISS



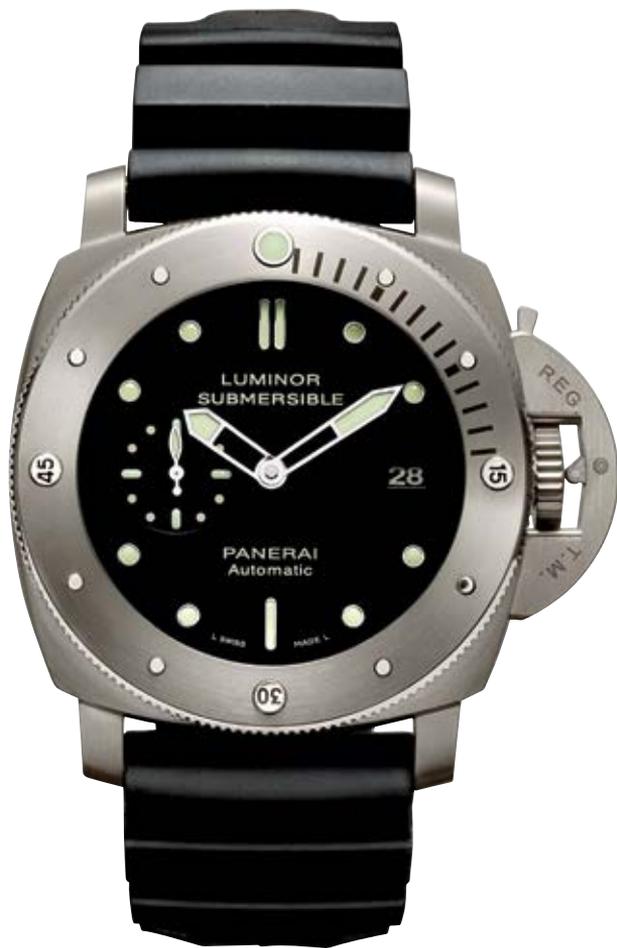
OFFICINE PANERAI

OP 0000

50m







Luminor Submersible  
1950 3 Days Automatic  
Titanio - 47mm

111

PAM00305  
Divers professional

112

Luminor Submersible  
1950 Amagnetic 3 Days  
Automatic Titano - 47mm



PAM00389



LUMINOR  
SUBMERSIBLE  
Amagnetic

114

Luminor 1950  
3 Days GMT  
Automatic - 44mm



PAM00320



Luminor 1950  
3 Days GMT  
Automatic - 44mm

115

PAM00329

116

Luminor 1950  
3 Days GMT Automatic  
Ceramica - 44mm



PAM00441



TUTTONERO - Luminor 1950  
3 Days GMT Automatic  
Ceramica - 44mm

117

PAM00438

118

Luminor 1950 3 Days  
GMT Power Reserve  
Automatic - 44mm



PAM00321



Luminor 1950 3 Days  
GMT Power Reserve  
Automatic - 44mm

119

PAM00347



## P.9100 MOVEMENT

The P.9100 calibre is the first automatic movement with chronograph functions developed by Officine Panerai and it is produced entirely in its Manufacture in Neuchâtel.

With a chronograph with a vertical clutch and column wheel, the new calibre is unusual in that the chronograph minutes are displayed by a central hand which jumps forward once every 60 seconds. It also has the useful flyback function. This enables the chronograph hands, which are already running, to be returned instantaneously to zero and restarted without it being necessary first to stop them and return them to zero, then to restart them. This function is controlled by the push-button at eight o'clock, which is also used to return both hands to zero when the chronograph has already stopped.

The P.9100 calibre is 13¼ lignes (31 mm) in diameter, it is 8.15 mm thick, it has 37 jewels and it is made up of 302 components. The two spring barrels in series give a power reserve of 72 hours. The choice of the double spring barrel enables thinner, longer springs to be used, which is beneficial for the duration and evenness of the supply of energy. The automatic winding is carried out by a bidirectional rotor on ball-bearings operating two narrow arms terminating with hooks, which wind the springs of the barrels with every movement of the rotor itself. Supported by a single bridge with a KIF Parechoc® anti-shock device, the Glucydur® balance wheel oscillates at 28,800 alternations/hour (equivalent to 4hz) and it is the variable inertia type, with the regulation carried out by adjusting four square-headed screws fitted in the outer perimeter of the balance wheel; the spring is therefore free, without the curb pins which can be a source of irregular timekeeping.

### TECHNICAL SPECIFICATIONS:

Automatic mechanical movement, executed entirely by Panerai, 13¼ lignes, 8.15 mm thick, 37 jewels, Glucydur® balance, 28,800 alternations/hour. KIF Parechoc® anti-shock device. Power reserve 3 days, two barrels, seconds reset device. Column wheel. 302 components.

122

Luminor 1950 3 Days  
Chrono Flyback - 44mm



PAM00524



Luminor 1950 3 Days  
Chrono Flyback  
Oro Rosso - 44mm

123

PAM00525



## P.9100/R MOVEMENT

To celebrate its special link with the world of classic yachts, Officine Panerai has created the P.9100/R calibre, the first Panerai watch with a function specifically associated with the world of sailing: the Regatta countdown function for the start of the race.

The P.9100/R is 13¼ lignes (31 mm) in diameter, it is 9.55 mm thick, it has 37 jewels and it is made up of 328 components as a result of the great constructional complexity resulting from the addition of the Regatta countdown function. It has the flyback chronograph function with vertical clutch and column wheel.

The indication of the countdown to the start is displayed by the two central hands, and it is controlled by the push-button at four o'clock. The minute hand moves backwards by one minute each time the push-button is pressed, until it reaches the position required for the duration of the countdown. At this point it is only necessary to press on the push-button at ten o'clock to start the chronograph function. The hands begin to move, indicating the minutes and seconds which remain before the start, and when the countdown is completed, they continue to measure the time, thus displaying the time elapsed since the start of the race until the chronograph is stopped. The device which enables the minute hand to be moved backwards on operating the countdown function is controlled, like the whole chronograph, by the column wheel. This is taller than the one in the P.9100 calibre so that it can engage the correcting lever which is mounted higher up, because it is located on an additional plate.

125

### TECHNICAL SPECIFICATIONS:

Automatic mechanical movement, executed entirely by Panerai, 13¼ lignes, 9.55 mm thick, 37 jewels, Glucydur® balance, 28,800 alternations/hour. KIF Parechoc® anti-shock device. Power reserve 3 days, two barrels, seconds reset device. Column wheel. 328 components.



-5

0

30

15

-10

-15

5

LUMINOR  
Regatta

PANERAI

12  
3  
9  
16

T.M.



Luminor 1950 Regatta  
3 Days Chrono Flyback  
Titanio - 47mm

PAM00526



## P.2003 MOVEMENT

The P.2003 was the first automatic movement entirely designed and created by the Officine Panerai Manufacture in Neuchâtel. It is an automatic calibre of advanced technical content with an unusually long power reserve of 10 days.

Made of 296 components and with 25 jewels, the P.2003 calibre is 13¾ lignes in diameter with a thickness of 8 mm. It has all the technical characteristics which form the DNA of the P.2000 series (free-sprung balance wheel with inertia regulation; 28,800 alternations per hour; three spring barrels; GMT function with 24-hour indication; rapid adjustment of local time; calendar; balance wheel stop; seconds reset device) but it is set apart by having automatic winding with a power reserve of 10 days, operated by an oscillating weight mounted on a ball bearing, which winds the springs of the barrels as it rotates in both directions.

The P.2003 calibre also has the seconds reset device which resets the seconds hand to zero, enabling the watch to be synchronised perfectly with a reference time signal. The operation of the system designed by Officine Panerai is very special: when the winding crown is pulled out to the second position, a thin blade moves into contact with the balance wheel, stopping it. At the same time, a small hammer lever moves downwards and acts on a heart-shaped cam which instantly moves the seconds hand to the zero position. As soon as the winding crown is returned to the normal position, the balance wheel is freed, the hammer lever is raised, thus releasing the cam, and the seconds hand resumes its normal course.

129

### TECHNICAL SPECIFICATIONS:

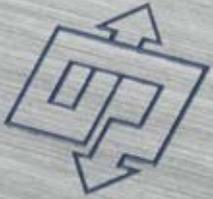
Automatic mechanical movement, executed entirely by Panerai, 13¾ lignes, 8 mm thick, 25 jewels, Glucydur® balance, 28,800 alternations/hour. KIF Parechoc® anti-shock device. Power reserve 10 days, three barrels, seconds reset device. 296 components\*.

\*The number of components varies according to the functions displayed on the watch.



2008  
WENTY-FIVE (25) JEWELS  
CAL. P.2003/6

OFFICINE PANERAI



OFFICINE PANERAI

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AUTOMATIC

GMT

STEEL



Radiomir 10 Days  
GMT - 47mm

131

PAM00323

132

Luminor 1950  
10 Days GMT - 44mm



PAM00270



Luminor 1950  
10 Days GMT  
Ceramica - 44mm

PAM00335



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## SPECIALITIES

135

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## P.2004 MOVEMENT

The P.2004 calibre is the first chronograph movement created entirely by the Panerai Manufacture, an expression of the quality of mechanical tradition applied to sports watches. The calibre P.2004 is a hand-wound mechanical movement with a power reserve of 8 days. It is a single-button column wheel chronograph which combines the start/stop/reset functions in a single push-piece. This push-piece is positioned at 8 o'clock so as to maintain the unmistakable appearance of Luminor watches, with the device protecting the winding crown, a distinctive feature of the design of Luminor cases. Its position also allows the most immediate control of the operations of the chronograph when making time measurements. The chronograph seconds hand is at the centre with the 30-minute counter at 3 o'clock, enabling the measurements themselves to be clearly read. But the heart of the movement consists of the sophisticated system for controlling the chronograph functions: the column wheel, a characteristic feature of high-quality chronographs, ensures the greatest precision in starting, stopping and resetting the chronograph hands. It is also equipped with the GMT function. The back of the Panerai Luminor 1950 8 Days Chrono Monopulsante GMT reveals the structure of the movement with its separate bridges, their brushed finish with chamfered edges and the polished screws. It is available with a brushed steel, titanium or ceramic case.

### TECHNICAL SPECIFICATIONS:

Hand-wound mechanical movement, executed entirely by Panerai, 13¼ lignes, 8.2 mm thick, 29 jewels, Glucydur® balance, 28,800 alternations/hour. KIF Parechoc® anti-shock device. Power reserve 8 days with linear indicator, three barrels, seconds reset device. Column wheel, 321 components.

138

Luminor 1950  
Chrono Monopulsante  
8 Days GMT - 44mm



PAM00275



Luminor 1950  
Chrono Monopulsante  
8 Days GMT Titanio - 44mm

139

PAM00311

140

Luminor 1950  
Chrono Monopulsante  
8 Days GMT Ceramica - 44mm



PAM00317



LUMINOR  
PANERAI  
GMT

am

pm

8 DAYS

L SWISS

MADE IN



## P.2005 MOVEMENT

The distinctive feature of the P.2005 calibre, entirely created by the Panerai Manufacture, is its sophisticated tourbillon, a device originally designed for pocket watches, interpreted in an innovative way by Officine Panerai to achieve more accurate timekeeping.

The tourbillon causes the balance wheel and escapement assembly to rotate continuously, thus correcting all the errors caused by gravity and possible friction. In the innovative Panerai tourbillon, the cage which contains the balance wheel and escapement rotates on an axis which is perpendicular to that of the balance wheel, rather than parallel to it. Also, while in a traditional tourbillon one rotation of the cage takes one minute; in the case of the Panerai P.2005 calibre the cage makes one rotation in 30 seconds. The greater speed and the particular arrangement of the balance wheel and escapement assembly enables it to compensate better for the running errors caused by the many vertical and horizontal positions of a wristwatch in the course of 24 hours.

The tourbillon cannot be seen from the dial side, but it is visible from the back of the watch; next to it is the indicator of the 6-day power reserve, displayed by a hand which moves in a circular arc. On the dial, however, as discreet proof of the presence and correct operation of the tourbillon, a small coloured disc is in the subsidiary small-seconds dial.

Linked to the tourbillon cage, this disc moves at the same speed as the cage and therefore completes two rotations per minute.

### TECHNICAL SPECIFICATIONS

Hand-wound mechanical movement, executed entirely by Panerai, 16¼ lignes, 9.1 mm thick, 31 jewels, Glucydur® balance, 28,800 alternations/hour. KIF Parechoc® anti-shock device. Power reserve 6 days with indicator on the back, three barrels. 239 components.

144

Radiomir Tourbillon  
GMT Titanio - 48mm



PAM00315



Luminor 1950 Tourbillon  
GMT Titanio - 47mm

145

PAM00306



TURBILLON

DAYS

6 4 2 0

BARRELS



Luminor 1950 Tourbillon  
GMT Ceramica - 48mm

147

PAM00396



## P.2006 MOVEMENT

The P.2006 hand-wound mechanical calibre was developed from the P.2004 single-button chronograph but in addition it has the split-seconds function, controlled by a second button at 10 o'clock: two superimposed central hands permit the measurement of two events simultaneously or the measurement of partial times. The power reserve is 8 days and this is displayed on the dial by a linear indicator.

While sharing the vertical clutch of the chronograph, the P.2006 has a second column wheel and two centre wheels, connected to the respective superimposed hands: the first and main one is the chronograph hand itself and the second is the split-seconds hand.

The complex construction of the P.2006 calibre involves the use of special, highly resistant materials, in particular for the arbors of the chronograph hands, which are fitted one inside the other, and which are 14 mm long.

The P.2006 calibre also has the seconds reset device which resets the seconds hand to zero, enabling the watch to be synchronised perfectly with a reference time signal. The operation of the system designed by Officine Panerai is very special: when the winding crown is pulled out to the second position, a thin blade moves into contact with the balance wheel, stopping it. At the same time, a small hammer lever moves downwards and acts on a heart-shaped cam which instantly moves the seconds hand to the zero position. As soon as the winding crown is returned to the normal position, the balance wheel is freed, the hammer lever is raised, thus releasing the cam, and the seconds hand resumes its normal course.

149

### TECHNICAL SPECIFICATIONS:

Hand-wound mechanical movement, executed entirely by Panerai, 13¼ lignes, 9.55 mm thick, 34 jewels, Glucydur® balance, 28,800 alternations/hour. KIF Parechoc® anti-shock device. Power reserve 8 days with linear indicator, three barrels, seconds reset device. Double column wheel, 356 components.



SWISS MADE

OFFICINE PANERAI

OFFICINE PANERAI  
CAL. P.2006/3

THIRTY-21

000318

TANIUM

RATTRAPANTE





Luminor 1950  
Rattrapante 8 Days  
Titanio - 47mm

151

PAM00530



## PANERAI TESTS FOR WATCHES WITH IN-HOUSE MOVEMENTS

In the course of their construction at the Panerai Manufacture, the in-house calibres – and the watches as a whole – are certified after undergoing several demanding final tests of its accuracy, regularity of operation, ageing and water-resistance.

### RATE CONTROLS AND CTMP TEST (CONTRÔLE TECHNIQUE DES MONTRES PANERAI)

Test carried out to check the regularity of operation of the movement combining the measurement of the average rate at a given moment and its stability in operation over time and in different positions of the watch.

### CHRONOFIABLE® TEST (NIHS 93-20 STANDARD),

### ACCELERATION TEST (NIHS 91-10 AND NIHS 91-30 STANDARDS)

These consist of checks carried out over 21 consecutive days, during which the movement is subjected to various dynamic stress cycles, to assess the resistance of all the components, the maintenance of a regular rate and of the correct functioning for the period indicated. The test cycle is equivalent to the use of the watch for about 6 months on the wearer's wrist.

Thermic and climatic tests are also carried out over 14 days in total (included in the above-mentioned 21 days), exposing the watch between 17°C and 57°C with 75% humidity.

### AGEING TEST OF THE HAND-SETTING MECHANISM AND WINDING STEM

This test is performed by carrying out a series of 1,000 cycles on the winding stem and the hand-setting mechanism, followed by a resistance test of the winding stem subjected to a force of 25N.

### AGEING TEST OF THE WINDING MECHANISM

This test simulates the use of the watch for about 5 years.

### ANTIMAGNETIC WATCH (ISO 764 STANDARD)

In the presence of magnetic fields of average intensity (4,800 A/m, 40,000 A/m for the amagnetic model) the watch must continue to run regularly.

## TESTS CARRIED OUT ON THE CASE

The quality of every single component of the case is checked. Then, after the case has been assembled, it undergoes its first test for water-resistance, to guarantee the protection it provides against the infiltration of dust and humidity. When the watch (case, movement and dial) has been assembled, it is tested again using various instruments to ensure the perfect water-resistance of your watch.

Moreover, the case undergoes: the thermal shock test to verify the resistance of the parts to sudden temperature variations; the damp heat test to determine the reliability of the watch under dampness and heat conditions; the salt spray test to check the corrosion resistance, and the synthetic sweat test to verify possible alterations by artificially simulating the conditions of use.

## WATER-RESISTANCE TEST (ISO 22810 STANDARD)

The case of the watch is subjected to a long series of tests, carried out at various temperatures and according to procedures which ensure its complete water-resistance. To simulate the effects which could occur in the event of the watch being exposed to a shower or immersed in water for a long time, the case is initially tested by a vacuum apparatus, then it is placed in a little bath with a few centimetres of water for a set period of time. The water-resistance test is carried out by a special instrument which subjects the watch to a pressure significantly greater than the guaranteed value of water-resistance.

Finally, the strict Panerai standards provide for a “water drop” test, which is performed by heating the case and placing a drop of cold water or a cold external element on the surface of the crystal protecting the dial. In this way, the possibility that there might be any moisture inside the case itself is eliminated.

## THE WINDING CROWN. SHOCK RESISTANCE TEST

The test carried out on the winding crown consists of subjecting the crown itself to the shock of falling from a height of 50 cm, with the watch inclined at an angle of 45°, thus unequivocally exposing this component to shocks. The crown must maintain its water-resistance in spite of the repeated shocks it undergoes.

#### RESISTANCE TEST OF THE DEVICE PROTECTING THE WINDING CROWN

This test is performed by carrying out a series of 5,000 opening and closing cycles of the lever of the device protecting the winding crown.

#### AGEING TEST OF THE CHRONO AND SPLIT-SECONDS PUSH-PIECES

This test is performed by carrying out a series of 3,000 cycles on the push-piece for the chronograph function and 12,000 cycles on the push-piece for the split-seconds function.

#### WEAR RESISTANCE TEST

This test is carried out by a series of cycles in which the crown is rotated in both directions (3,000 cycles) with a perpendicular force of 5N.

Information on Panerai's internal quality certification is included in the Certificates Booklet supplied with the watches with in-house movements.

The Certificates Booklet includes:

the watch ID

the guarantee certificate

the guarantee terms

the repair guarantee terms

the rate controls and CTMP test (Contrôle technique des montres Panerai)

the details of the tests carried out on the other components of the watch

the service book: it provides a chronology of all service interventions carried out on the watch.

The service seal and the signature at the bottom of each page confirm that the intervention was performed at the Panerai Manufacture or by an Authorised Panerai Service Centre.



OFFICINE PANERAI

## MILLESIMATION

To meet the requirement for high quality, reliability, and long-term durability, Panerai has strict production criteria which do not allow the watches to be produced in large numbers.

For this reason Officine Panerai declares the number of watches manufactured in each year, and each piece is numbered.

## C.O.S.C.

The C.O.S.C. Certificate is a certificate of accuracy issued by the Contrôle Officiel Suisse des Chronomètres (C.O.S.C.) to a movement which is certified as a chronometer (that is, a particularly accurate watch) by exceeding the standards set by the NIHS (Normes de l'Industrie Horlogère Suisse - Standards of the Swiss Watch Industry).

To receive a chronometer certificate the movement undergoes 15 days of tests to measure the accuracy and consistency of its timekeeping in various positions and conditions of use and at different temperatures. Only movements recording an average daily rate variation between -4 and +6 seconds receive official certification from C.O.S.C.

## THE PANERAI PRESENTATION CASE

Panerai watches are supplied with an exclusive craftsman-made presentation case executed in pear wood.

## ACCESSORIES

The detailed technical and aesthetic research which marks every step of the creation of a Panerai watch has been constantly accompanied by an equivalent research into accessories.

Panerai straps are perfectly integrated into the structure of the case. Their flexibility and resistance contribute to the overall quality of the watch. They are available in different colours, materials and sizes with pin or adjustable buckle.

### THE PANERAI STRAP

The strap is hypo-allergenic. Before going into production, samples of the straps are subjected to a series of extreme actions, by simulators which imitate the conditions of use over a period of several years.

Tests include resistance to traction, twisting (to check the relationship between stiffness and flexibility), abrasion (friction against rough surfaces measures the resistance of the strap and its colour), sweat (seven-day test carried out by rubbing the sample with a felt tip soaked in a strongly acid chemical solution), humidity and UV rays.

## THE PANERAI METAL BRACELET

All the parts of the bracelet are formed from a solid block of metal by operations carried out by numerically controlled milling machines. After the quality of every single component has been checked, the non-removable part is assembled and laser-welded, then polishing is carried out by hand. Samples of the bracelets are subjected to a series of tests of overall ageing of the bracelet: alternating movements on the artificial wrists, traction and torsion, salt spray (according to standard ISO 9227), synthetic sweat (according to standard NIHS 96-50) and measurement of nickel release (according to standard EN 1811).

## THE PANERAI CERAMIC BRACELET

The links of the ceramic bracelet are made out of injection moulding. After undergoing a series of manufacturing processes at high temperature, these links are assembled to create the bracelet. Samples of the bracelets are subjected to a series of tests of overall ageing: alternating movements on the artificial wrists, traction and torsion, salt spray (according to standard ISO 9227), and synthetic sweat (according to standard NIHS 96-50).

Officine Panerai is not the owner of the Glucydur®, Incabloc®, KIF Parechoc® and Chronofiable® trademarks.

Page	Reference	Name	Material	Movement
16	PAM00000	Luminor Base Logo - 44mm	STEEL	OP I
17	PAM00005	Luminor Marina Logo - 44mm	STEEL	OP II
18	PAM00114	Luminor Base - 44mm	STEEL	OP X
19	PAM00112	Luminor Base - 44mm	STEEL	OP X
20	PAM00176	Luminor Base Titanio - 44mm	TITANIUM	OP X
24	PAM00113	Luminor Marina - 44mm	STEEL	OP XI
25	PAM00111	Luminor Marina - 44mm	STEEL	OP XI
26	PAM00177	Luminor Marina Titanio - 44mm	TITANIUM	OP XI
31	PAM00219	Luminor Base Left-Handed - 44mm	STEEL	OP X
35	PAM00380	Radiomir Black Seal Logo - 45mm	STEEL	OP II
36	PAM00183	Radiomir Black Seal - 45mm	STEEL	OP XI
37	PAM00292	Radiomir Black Seal Ceramica - 45mm	CERAMIC	OP XI
40	PAM00337	Radiomir - 42mm	STEEL	P.999/1
41	PAM00439	Radiomir Oro Rosso - 42mm	RED GOLD	P.999
42	PAM00512	Radiomir 1940 - 42mm	STEEL	P.999/1
45	PAM00513	Radiomir 1940 Oro Rosso - 42mm	RED GOLD	P.999
48	PAM00424	Radiomir California 3 Days - 47mm	STEEL	P.3000
49	PAM00425	Radiomir S.L.C. 3 Days - 47mm	STEEL	P.3000
51	PAM00504	Radiomir Composite® 3 Days - 47mm	COMPOSITE®	P.3000
52	PAM00421	Radiomir 3 Days GMT Oro Rosso - 47mm	RED GOLD	P.3001
54	PAM00514	Radiomir 1940 3 Days - 47mm	STEEL	P.3000
55	PAM00515	Radiomir 1940 3 Days Oro Rosso - 47mm	RED GOLD	P.3000
57	PAM00372	Luminor 1950 3 Days - 47mm	STEEL	P.3000

Functions	Power Reserve	Back	Water-resistance
H, M	56H	SCREW	30 BAR
H, M, S	56H	SCREW	30 BAR
H, M	56H	SAPPHIRE	30 BAR
H, M	56H	SAPPHIRE	30 BAR
H, M	56H	SAPPHIRE	30 BAR
H, M, S	56H	SAPPHIRE	30 BAR
H, M, S	56H	SAPPHIRE	30 BAR
H, M, S	56H	SAPPHIRE	30 BAR
H, M	56H	SAPPHIRE	30 BAR
H, M, S	56H	SCREW	10 BAR
H, M, S	56H	SAPPHIRE	10 BAR
H, M, S	56H	SCREW	10 BAR
H, M, S	60H	SAPPHIRE	10 BAR
H, M, S	60H	SAPPHIRE	10 BAR
H, M, S	60H	SAPPHIRE	10 BAR
H, M, S	60H	SAPPHIRE	10 BAR
H, M, D	72H	SAPPHIRE	10 BAR
H, M	72H	SAPPHIRE	10 BAR
H, M, S	72H	SAPPHIRE	10 BAR
H, M, S, D, GMT, PR BACK, SR	72H	SAPPHIRE	5 BAR
H, M, S, D	72H	SAPPHIRE	10 BAR
H, M, S, D	72H	SAPPHIRE	5 BAR
H, M	72H	SAPPHIRE	10 BAR

Page	Reference	Name	Material	Movement
58	PAM00422	Luminor Marina 1950 3 Days - 47mm	STEEL	P.3001
59	PAM00423	Luminor 1950 3 Days Power Reserve - 47mm	STEEL	P.3002
62	PAM00346	Radiomir 8 Days Titanio - 45mm	TITANIUM	P.2002/9
63	PAM00384	Radiomir 8 Days Ceramica - 45mm	CERAMIC	P.2002/3
64	PAM00233	Luminor 1950 8 Days GMT - 44mm	STEEL	P.2002
65	PAM00289	Luminor 1950 8 Days GMT Oro Rosa - 44mm	PINK GOLD	P.2002
70	PAM00104	Luminor Marina Automatic - 44mm	STEEL	OP III
71	PAM00164	Luminor Marina Automatic - 44mm	STEEL	OP III
73	PAM00299	Luminor Marina Automatic - 44mm	STEEL	OP III
74	PAM00048	Luminor Marina Automatic - 40mm	STEEL	OP III
75	PAM00049	Luminor Marina Automatic - 40mm	STEEL	OP III
78	PAM00024	Luminor Submersible - 44mm	STEEL	OP III
79	PAM00025	Luminor Submersible Titanio - 44mm	TITANIUM	OP III
82	PAM00088	Luminor GMT - 44mm	STEEL	OP VIII
83	PAM00297	Luminor GMT - 44mm	STEEL	OP VIII
85	PAM00244	Luminor GMT - 40mm	STEEL	OP VIII
88	PAM00090	Luminor Power Reserve - 44mm	STEEL	OP IX
89	PAM00241	Luminor Power Reserve - 40mm	STEEL	OP IX
93	PAM00356	Luminor Chrono Daylight - 44mm	STEEL	OP XII
96	PAM00388	Radiomir Black Seal 3 Days Automatic - 45mm	STEEL	P.9000
98	PAM00312	Luminor Marina 1950 3 Days Automatic - 44mm	STEEL	P.9000
99	PAM00328	Luminor Marina 1950 3 Days Automatic - 44mm	STEEL	P.9000
101	PAM00359	Luminor Marina 1950 3 Days Automatic - 44mm	STEEL	P.9000

Functions	Power Reserve	Back	Water-resistance
H, M, S, PR BACK, SR	72H	SAPPHIRE	10 BAR
H, M, S, PR, SR	72H	SAPPHIRE	10 BAR
H, M, S, D, PR BACK, SR	192H	SAPPHIRE	10 BAR
H, M, S, D, PR	192H	SAPPHIRE	10 BAR
H, M, S, D, GMT, 24H INDICATOR, PR, SR	192H	SAPPHIRE	10 BAR
H, M, S, D, GMT, 24H INDICATOR, PR, SR	192H	SAPPHIRE	10 BAR
H, M, S, D	42H	SCREW	30 BAR
H, M, S, D	42H	SCREW	30 BAR
H, M, S, D	42H	SCREW	30 BAR
H, M, S, D	42H	SCREW	30 BAR
H, M, S, D	42H	SCREW	30 BAR
H, M, S, D, SUB	42H	SCREW	30 BAR
H, M, S, D, SUB	42H	SCREW	30 BAR
H, M, S, D, GMT	42H	SCREW	30 BAR
H, M, S, D, GMT	42H	SCREW	30 BAR
H, M, S, D, GMT	42H	SCREW	30 BAR
H, M, S, D, PR	42H	SCREW	30 BAR
H, M, S, D, PR	42H	SCREW	30 BAR
H, M, S, D, CH	46H	SCREW	10 BAR
H, M, S, D	72H	SAPPHIRE	10 BAR
H, M, S, D	72H	SAPPHIRE	30 BAR
H, M, S, D	72H	SAPPHIRE	30 BAR
H, M, S, D	72H	SAPPHIRE	30 BAR

Page	Reference	Name	Material	Movement
102	PAM00505	Radiomir Composite® Black Seal 3 Days Automatic - 45mm	COMPOSITE	P.9000
104	PAM00351	Luminor Marina 1950 3 Days Automatic Titanio - 44mm	TITANIUM	P.9000
105	PAM00352	Luminor Marina 1950 3 Days Automatic Titanio - 44mm	TITANIUM	P.9000
106	PAM00392	Luminor Marina 1950 3 Days Automatic - 42mm	STEEL	P.9000
108	PAM00393	Luminor Marina 1950 3 Days Automatic Oro Rosso - 42mm	RED GOLD	P.9000
111	PAM00305	Luminor Submersible 1950 3 Days Automatic Titanio - 47mm	TITANIUM	P.9000
112	PAM00389	Luminor Submersible 1950 Amagnetic 3 Days Automatic Titanio - 47mm	TITANIUM	P.9000
114	PAM00320	Luminor 1950 3 Days GMT Automatic - 44mm	STEEL	P.9001
115	PAM00329	Luminor 1950 3 Days GMT Automatic - 44mm	STEEL	P.9001
116	PAM00441	Luminor 1950 3 Days GMT Automatic Ceramica - 44mm	CERAMIC	P.9001
117	PAM00438	TUTTONERO - Luminor 1950 3 Days GMT Automatic Ceramica - 44mm	CERAMIC	P.9001/B
118	PAM00321	Luminor 1950 3 Days GMT Power Reserve Automatic - 44mm	STEEL	P.9002
119	PAM00347	Luminor 1950 3 Days GMT Power Reserve Automatic - 44mm	STEEL	P.9002
122	PAM00524	Luminor 1950 3 Days Chrono Flyback - 44mm	STEEL	P.9100
123	PAM00525	Luminor 1950 3 Days Chrono Flyback Oro Rosso - 44mm	RED GOLD	P.9100
127	PAM00526	Luminor 1950 Regatta 3 Days Chrono Flyback Titanio - 47mm	TITANIUM	P.9100/R
131	PAM00323	Radiomir 10 Days GMT - 47mm	STEEL	P.2003/6
132	PAM00270	Luminor 1950 10 Days GMT - 44mm	STEEL	P.2003
133	PAM00335	Luminor 1950 10 Days GMT Ceramica- 44mm	CERAMIC	P.2003
138	PAM00275	Luminor 1950 Chrono Monopulsante 8 Days GMT - 44mm	STEEL	P.2004
139	PAM00311	Luminor 1950 Chrono Monopulsante 8 Days GMT Titanio - 44mm	TITANIUM	P.2004
140	PAM00317	Luminor 1950 Chrono Monopulsante 8 Days GMT Ceramica - 44mm	CERAMIC	P.2004

Functions	Power Reserve	Back	Water-resistance
H, M, S, D	72H	SAPPHIRE	10 BAR
H, M, S, D	72H	SAPPHIRE	30 BAR
H, M, S, D	72H	SAPPHIRE	30 BAR
H, M, S, D	72H	SAPPHIRE	10 BAR
H, M, S, D	72H	SAPPHIRE	5 BAR
H, M, S, D, SUB	72H	SAPPHIRE	30 BAR
H, M, S, D, SUB	72H	SCREW	30 BAR
H, M, S, D, GMT, PR BACK, SR	72H	SAPPHIRE	30 BAR
H, M, S, D, GMT, PR BACK, SR	72H	SAPPHIRE	30 BAR
H, M, S, D, GMT, PR BACK, SR	72H	SAPPHIRE	10 BAR
H, M, S, D, GMT, PR BACK, SR	72H	SAPPHIRE	10 BAR
H, M, S, D, GMT, PR, SR	72H	SAPPHIRE	30 BAR
H, M, S, D, GMT, PR, SR	72H	SAPPHIRE	30 BAR
H, M, S, D, FLYBACK, SR	72H	SAPPHIRE	10 BAR
H, M, S, D, FLYBACK, SR	72H	SAPPHIRE	5 BAR
H, M, S, FLYBACK, REGATTA, BOAT SPEED CALCULATION, SR	72H	SAPPHIRE	10 BAR
H, M, S, D, GMT, 24H INDICATOR, PR, SR	240H	SAPPHIRE	10 BAR
H, M, S, D, GMT, 24H INDICATOR, PR, SR	240H	SAPPHIRE	10 BAR
H, M, S, D, GMT, 24H INDICATOR, PR, SR	240H	SAPPHIRE	10 BAR
H, M, S, GMT, 24H INDICATOR, PR, SR, CH MONO	192H	SAPPHIRE	10 BAR
H, M, S, GMT, 24H INDICATOR, PR, SR, CH MONO	192H	SAPPHIRE	10 BAR
H, M, S, GMT, 24H INDICATOR, PR, SR, CH MONO	192H	SAPPHIRE	10 BAR

Page	Reference	Name	Material	Movement
144	PAM00315	Radiomir Tourbillon GMT Titanio - 48mm	TITANIUM	P.2005
145	PAM00306	Luminor 1950 Tourbillon GMT Titanio - 47mm	TITANIUM	P.2005
147	PAM00396	Luminor 1950 Tourbillon GMT Ceramica - 48mm	CERAMIC	P.2005/B
151	PAM00530	Luminor 1950 Rattrapante 8 Days Titanio - 47mm	TITANIUM	P.2006/3

### Legend

H	HOURS
M	MINUTES
S	SMALL SECONDS
D	DATE
GMT	SECOND TIME ZONE
PR	POWER RESERVE INDICATOR
PR BACK	POWER RESERVE INDICATOR ON THE BACK
SR	SECONDS RESET
SUB	CALCULATION OF IMMERSION TIME
CH	CHRONOGRAPH
CH MONO	SINGLE-BUTTON CHRONOGRAPH

Functions	Power Reserve	Back	Water-resistance
H, M, S, GMT, 24H INDICATOR, PR BACK, TOURBILLON	144H	SAPPHIRE	10 BAR
H, M, S, GMT, 24H INDICATOR, PR BACK, TOURBILLON	144H	SAPPHIRE	10 BAR
H, M, S, GMT, 24H INDICATOR, PR BACK, TOURBILLON	144H	SAPPHIRE	10 BAR
H, M, S, PR, SR, RATRAPANTE	192H	SAPPHIRE	10 BAR

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