

*The Oyster Perpetual*  
ROLEX DEEPSEA



## Reference

116660

### MODEL CASE

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#### MODEL CASE

Oyster, 44 mm, steel

#### OYSTER ARCHITECTURE

Monobloc middle case, screw-down case back and winding crown. Rolex Ringlock System case architecture with Helium escape valve

#### DIAMETER

44 mm

#### MATERIAL

904L steel, case back in grade 5 titanium

#### BEZEL

Unidirectional rotatable 60-minute graduated, scratch-resistant Cerachrom insert in ceramic, numerals and graduations coated in platinum

#### WINDING CROWN

Screw-down, Triplock triple waterproofness system

#### CRYSTAL

Domed, 5 mm-thick scratch-resistant sapphire

#### WATER-RESISTANCE

Waterproof to 3,900 metres / 12,800 feet, helium escape valve

### MOVEMENT

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#### MOVEMENT

Perpetual, mechanical, self-winding

#### CALIBRE

3135, Manufacture Rolex

#### FUNCTIONS

Centre hour, minute and seconds hands. Instantaneous date with rapid setting. Stop-seconds for precise time setting

#### OSCILLATOR

Paramagnetic blue Parachrom hairspring

#### WINDING

Bidirectional self-winding via Perpetual rotor

#### POWER RESERVE

Approximately 48 hours

#### PRECISION

-2/+2 sec/day, after casing

### BRACELET

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#### BRACELET

Oyster, flat three-piece links

#### BRACELET MATERIAL

904L steel

#### CLASP

Folding Oysterlock safety clasp with Rolex Glidelock extension system. Fliplock extension link

### DIAL

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#### DIAL

Black

#### DETAILS

Highly legible Chromalight display with long-lasting blue luminescence

### CERTIFICATION

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#### CERTIFICATION

Superlative Chronometer (COSC + Rolex certification after casing)

*Style of the Rolex Deepsea*

## THE LAST FRONTIER

The robust 44 mm case in 904L stainless steel, thick domed sapphire crystal and unidirectional rotatable bezel with a 60-minute graduated black Cerachrom insert exude the purposeful character embodied in the name. It is the uncompromising divers' watch, built for the darkest depths. A true Professional.



*Function of the Rolex Deepsea*

## RINGLOCK SYSTEM



An exclusive technical innovation, the Ringlock System allows the Rolex Deepsea's case to withstand water pressure equivalent to a weight of some three tonnes on the crystal. The three core components of this intricate case architecture are made in the toughest aerospace-grade materials available.

A nitrogen-alloyed steel central ring forms the backbone of the system, accompanied by a 5 mm thick domed sapphire crystal and a case back in grade 5 titanium. The Rolex Deepsea can go deeper than all but a few purpose-built research submersibles, and more than 100 times beyond the depth that any human could physically survive.

## *Function of the Rolex Deepsea*

# THE HYPERBARIC TANK

To guarantee water resistance to the extreme depth of 3,900 metres (12,800 feet), Rolex tests every single Rolex Deepsea that is made in a specially designed 1.3 tonne tank. The stainless steel hyperbaric tank, which is cast in a single piece, simulates the pressure at 4,875 metres (16,000 feet) below sea level, some 25 per cent greater than the depth indicated on the watch dial.

At this depth, the pressure exerted upon the crystal and the caseback is equivalent to a weight of 4.5 tonnes. This high-tech equipment was developed with COMEX (Compagnie Maritime d'Expertise), a renowned pioneer in underwater engineering and hyperbaric technology, with which Rolex has been collaborating for several decades.





OYSTER



### *Function of the Rolex Deepsea*

## BLUE LUMINESCENCE

The innovative Chromalight display on the dial pushes back the boundaries of visibility in dark environments. Its distinctive blue glow lasts up to 8 hours with a uniform luminosity throughout, practically twice as long as that of standard luminescent materials. The zero marker on the bezel, in the form of a triangle, is also visible in the darkest reaches of the ocean thanks to a capsule containing the same luminescent material.

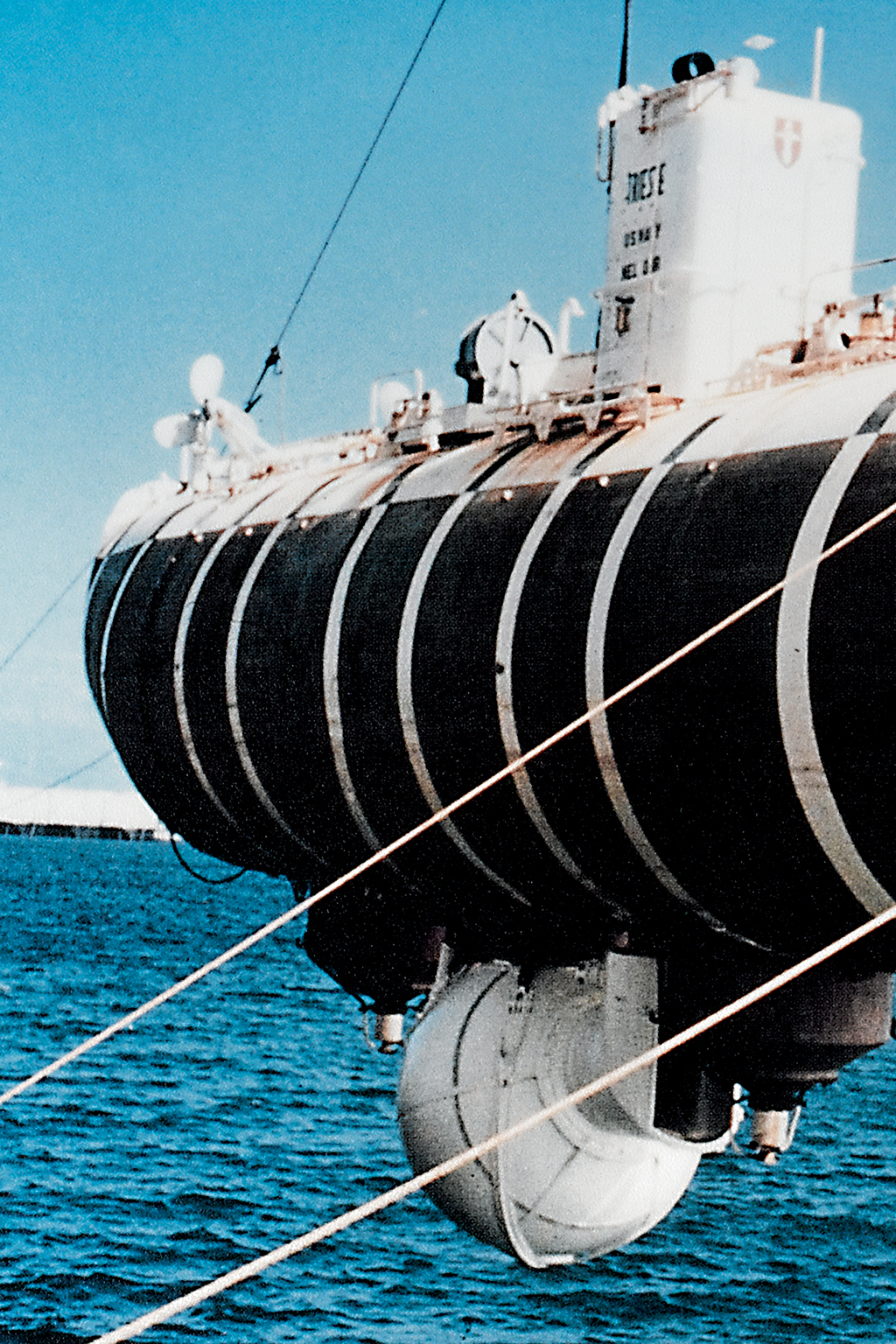
## *Function of the Rolex Deepsea*

### THE TITANIUM CASE BACK

The case architecture that enables the Rolex Deepsea to resist the colossal pressure exerted by water at great depths takes advantage of two surprising features. First of all, the very strong titanium case back is almost imperceptibly flexible thanks to the natural qualities of the alloy, making it extremely resilient to such huge forces. Secondly, the water pressure itself forces the three core components of the Ringlock System, including the case back, tighter and tighter together as the depth increases, naturally reinforcing the hermetic seal of the case.







## *Spirit of the Rolex Deepsea*

# THE DEEPEST DIVE

In 1960, U.S. Navy Lieutenant Don Walsh and Swiss oceanographer Jacques Piccard forever raised the bar for marine exploration by piloting the bathyscaphe Trieste to the deepest point in the world's oceans, Challenger Deep in the Mariana Trench. When they surfaced from the historic dive to a depth of 10,916 metres (37,800 feet) in the Pacific Ocean, the submersible was carrying an experimental Rolex watch, the Deep Sea Special, attached to the exterior.

It was in perfect working order, the only watch to have successfully been taken so deep in real-life conditions: an achievement that cemented Rolex's expertise as the pioneer and leader of the waterproof wristwatch.



*Spirit of the Rolex Deepsea*

## JAMES CAMERON

*"The Rolex Deepsea Challenge was the reliable companion throughout the dive; it was visible on the sub's manipulator arm and working precisely at 10,908 metres down at the bottom of Challenger Deep. It's a tremendous example of engineering know-how, and an ideal match for the DEEPSEA CHALLENGER submersible."*

JAMES CAMERON  
National Geographic Explorer-in-Residence

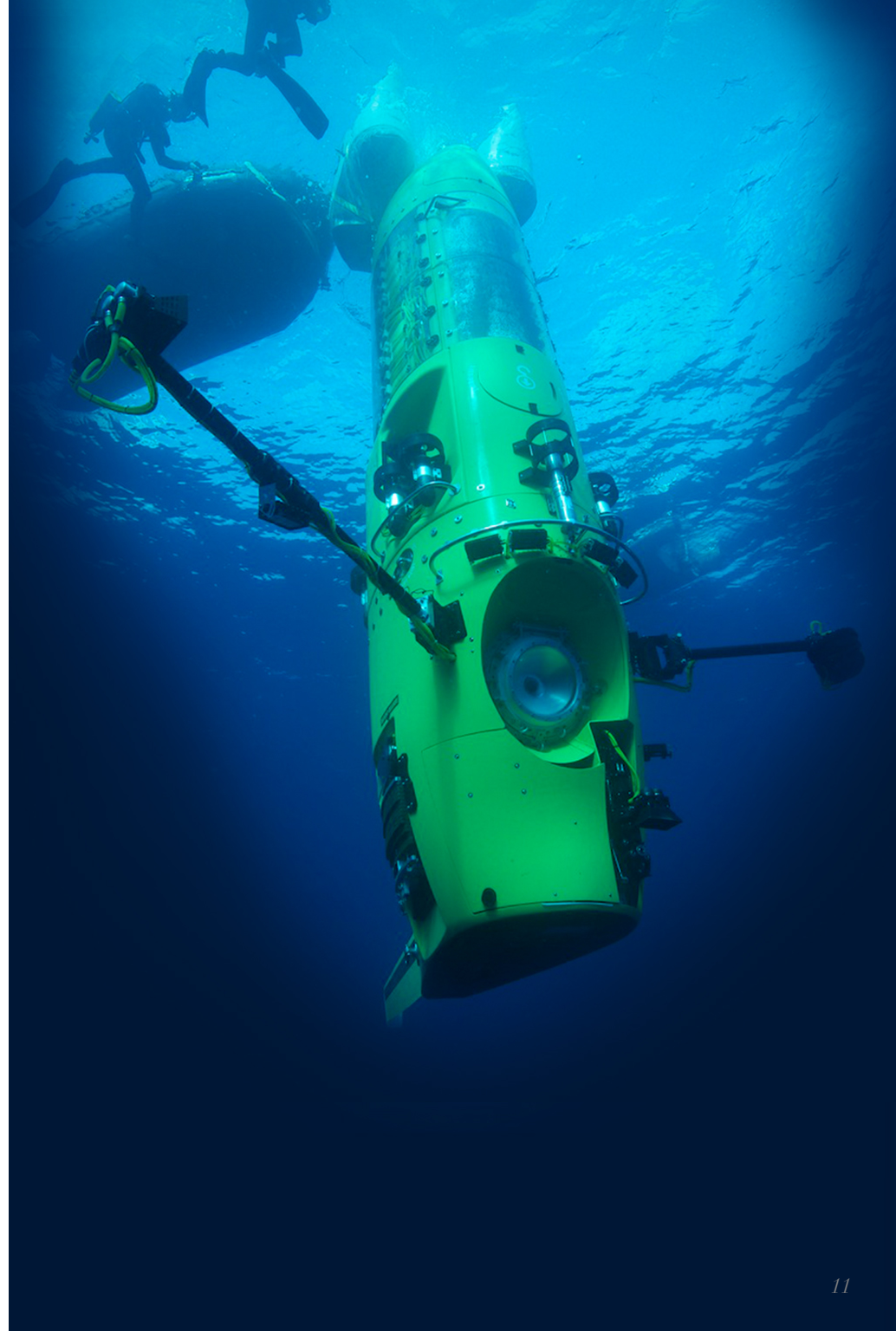
*Spirit of the Rolex Deepsea*

## THE DEEPEST PLACE ON EARTH



On 26 March 2012, film-maker and National Geographic Explorer-in-Residence James Cameron descended into the Mariana Trench in his submersible, making the deepest-ever solo dive.

It was the first manned dive to the deepest part of the Trench, known as Challenger Deep, since the pioneering two-man Trieste expedition of 1960. Only one passenger joined both voyages: a Rolex watch.

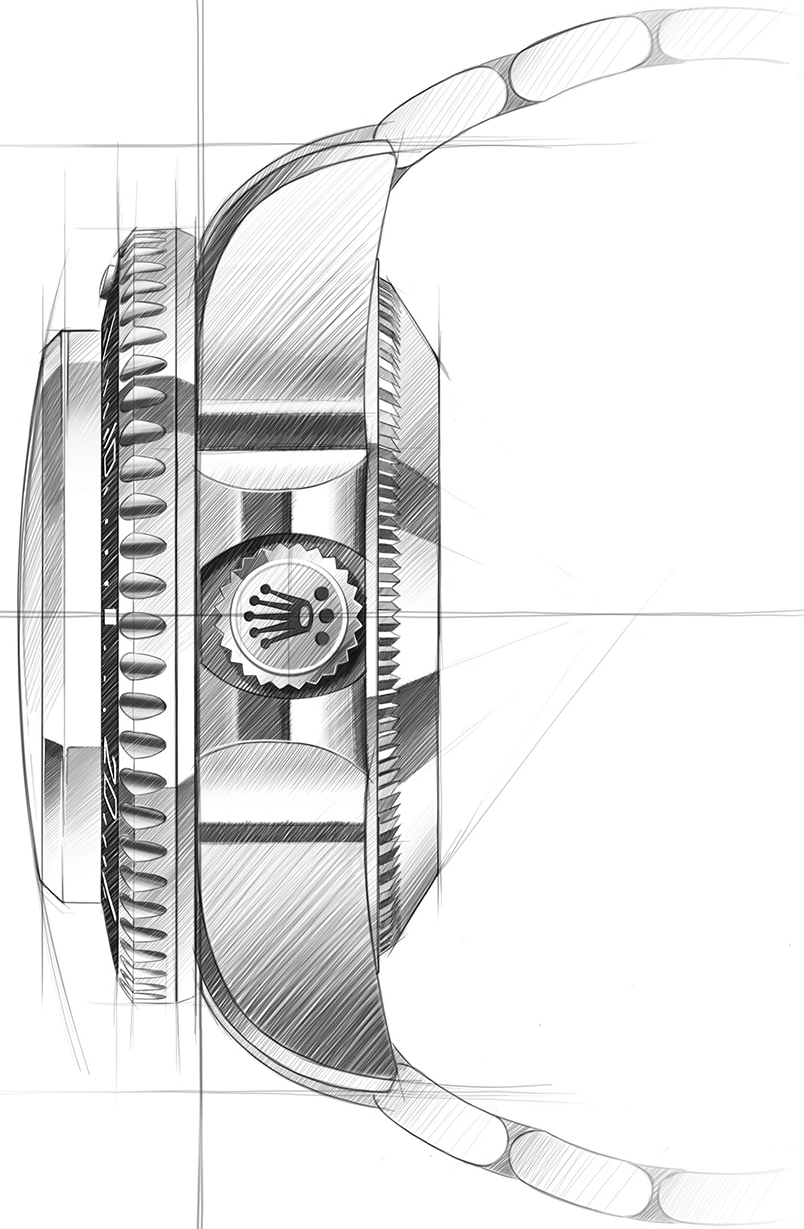
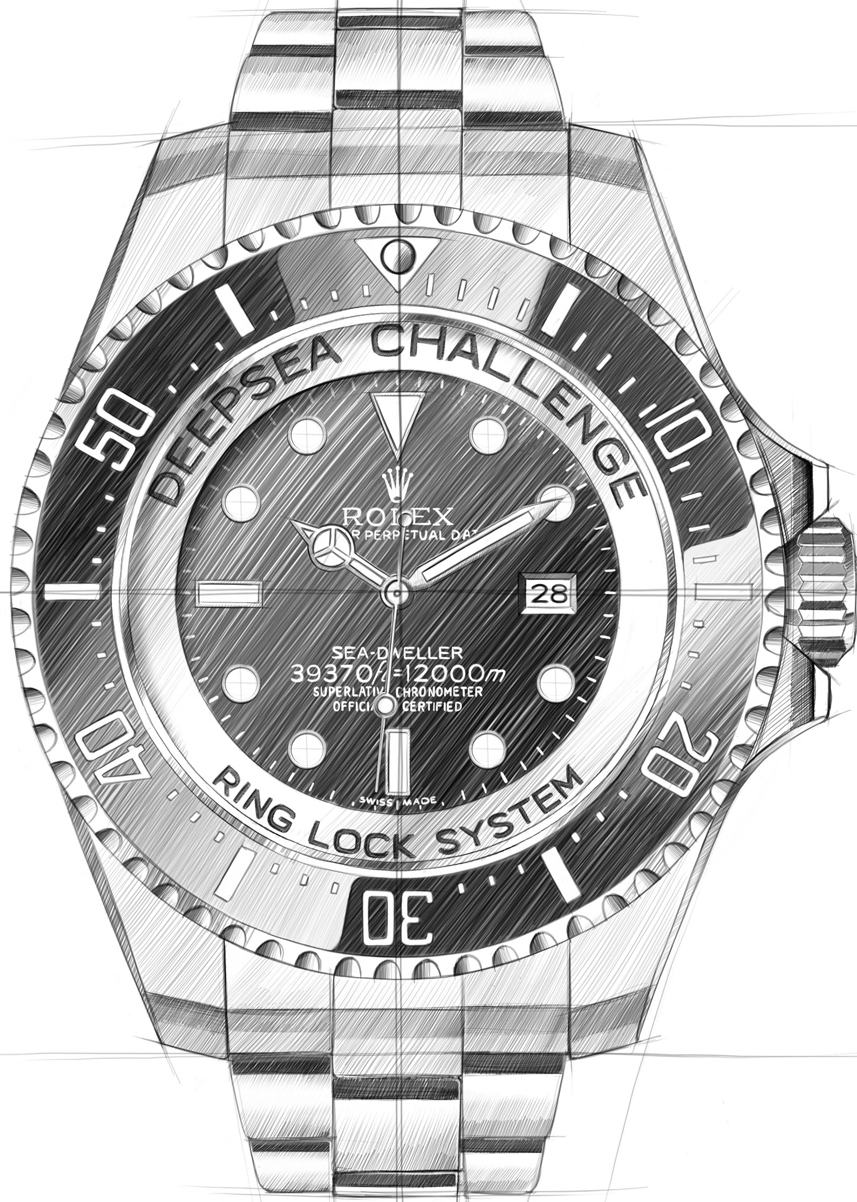


*Spirit of the Rolex Deepsea*  
**THE DEESEA  
CHALLENGE**



The Oyster Perpetual Rolex Deepsea Challenge is an experimental diving watch certified waterproof up to 12,000 metres (39,370 feet), entirely designed and built by Rolex to resist the extreme pressure in the deepest reaches of the oceans. Setting the record for the deepest diving watch in the world.







*Spirit of the Rolex Deepsea*

## DEEPSEA UNDER THE POLE BY ROLEX



Deepsea Under the Pole by Rolex was a pioneering expedition and a human adventure that combined ski trekking and scuba diving in one of the toughest climates on the planet, the North Pole. The expedition members were equipped with Oyster Perpetual Rolex Deepsea watches.

The goal of this fantastic experience in 2010 was to make more than 50 dives in the freezing waters beneath the North Pole, take as many amazing and enthralling photos as possible, and gather large amounts of scientific data about snow, fauna and the ice floes.

## *Features*

# GLIDELOCK EXTENSION SYSTEM



The patented Rolex Glidelock fine adjustment system allows divers to adjust the length of the bracelet for a secure and comfortable fit over a diving suit, without using any tools. A robust toothed panel under the clasp cover provides an extension of up to 20 mm in 2 mm increments.

The mechanism is completely integrated into the design of the clasp. It provides a reliable closure... and peace of mind during dives.





### *Features*

## 3135 MOVEMENT

The Rolex Deepsea is equipped with calibre 3135, a self-winding mechanical movement entirely developed and manufactured by Rolex. Like all Rolex Perpetual movements, the 3135 is a certified Swiss chronometer, a designation reserved for high-precision watches that have successfully passed the Swiss Official Chronometer Testing Institute (COSC) tests.

The 3135 features a Parachrom hairspring, offering greater resistance to shocks and to temperature variations. Its architecture, in common with all Oyster watch movements, makes it singularly reliable.



### *Features*

## SUPERLATIVE CHRONOMETER

The green seal accompanying every Rolex watch is a symbol of its status as a Superlative Chronometer. This exclusive designation attests that it has successfully undergone a series of specific final controls by Rolex in its own laboratories according to its own criteria, in addition to the official COSC certification of its movement. This unique testing of the chronometric precision of the cased-up movement, as well as of the watch's waterproofness, self-winding and power reserve, pushes back the boundaries of performance and makes Rolex the benchmark for excellence in mechanical watches. The green seal is coupled with a five-year guarantee which applies to all Rolex models.





*Where to buy a Rolex*

## THE OFFICIAL ROLEX RETAILER

Only official Rolex retailers, distinguishable by this official green plaque, are allowed to sell and maintain a Rolex. With the necessary skills, technical know-how and special equipment, they guarantee the authenticity of each and every part of your Rolex, not to mention its reliability over time, helping you make the choice that will last a lifetime.



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