

*The Oyster Perpetual*  
ROLEX DEEPSEA



  
ROLEX

# SUMMARY

## *The Spirit of the Rolex Deepsea*

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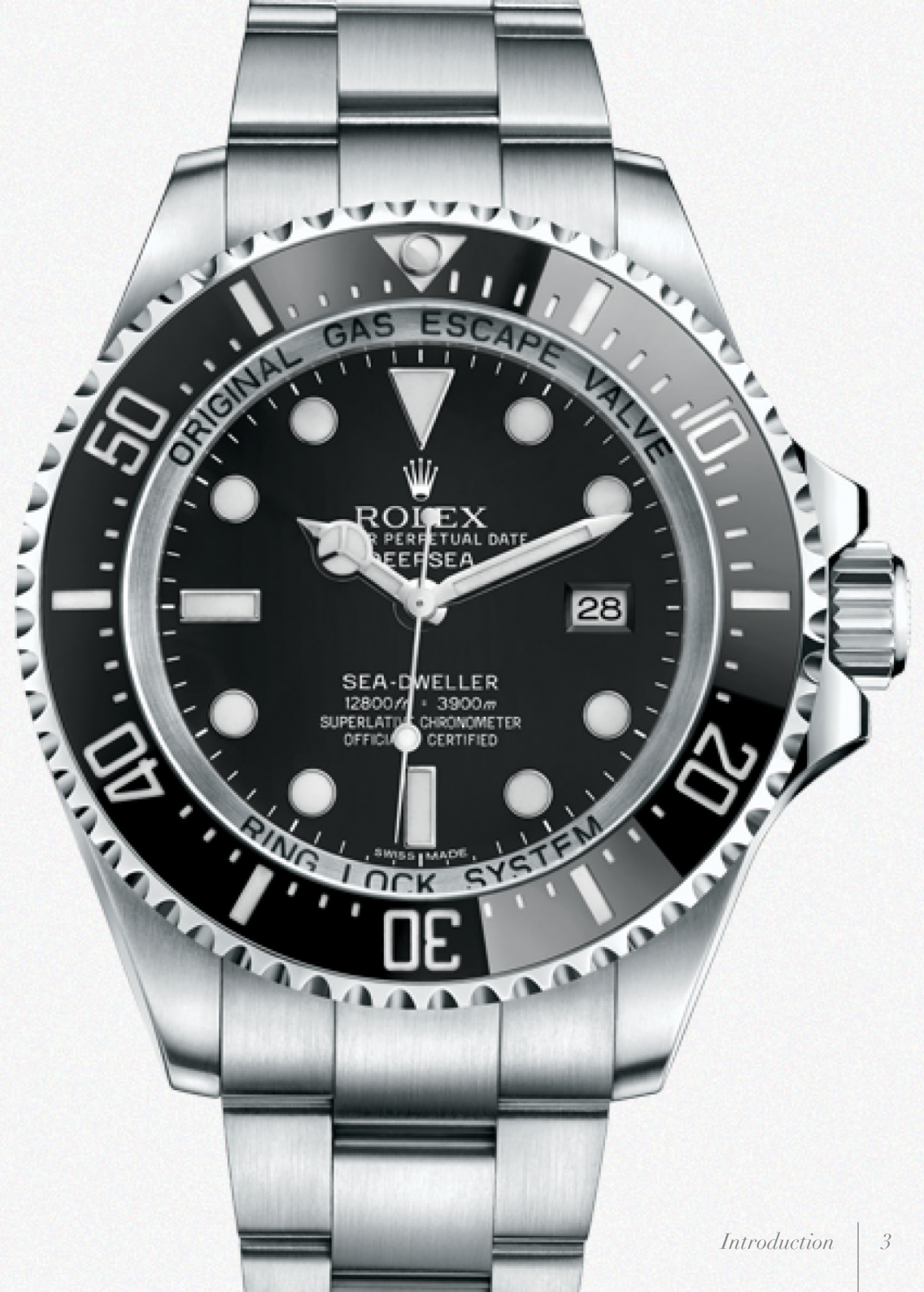
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## THE ROLEX DEEPSEA

*44 mm in steel*

The Rolex Deepsea is water-resistant to a depth of 3,900 metres (12,800 feet) and built to meet the exacting demands of professional divers. This robust, precise and reliable Professional model unveiled in 2008 illustrates Rolex's mastery of waterproofness, acquired over decades of real-life experience stretching back to the heyday of underwater exploration. It is steeped in the pioneering spirit that led Rolex to invent the Oyster and develop, in the 1950s and 1960s, divers' watches like the Submariner and the Sea-Dweller. The Rolex Deepsea owes its name to the Deep Sea Special, the experimental Rolex watch that in 1960 successfully travelled to the deepest point in the oceans, a depth of 10,916 metres.



*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*

## A CASE FOR DIVING DEEPER

The Rolex Deepsea relies on an innovative case architecture to withstand the crushing pressure exerted 3,900 metres beneath the ocean's surface. The case is also equipped with a gas escape valve, allowing the helium that can penetrate the watch during saturation decompression in a hyperbaric chamber to escape without harming the timepiece. The bezel's prominent knurled edge offers excellent grip to set dive time even with thick gloves, while the Oyster bracelet is equipped with a double extension system allowing the watch to be worn over the thickest diving suit. All tried and tested. All combined to create the faithful guardian of time for deep diving.



### *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*

## 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*

## HELIUM ESCAPE VALVE

Before they return to the open air, professional divers heading for the surface after a deep saturation dive must spend time in a decompression chamber, where they breathe a gas mixture containing helium. The tiny molecules of helium, an extremely light and non-volatile gas, infiltrate everywhere in the chamber, also penetrating the watch. During decompression, the helium is unable to escape from the waterproof case quickly enough, creating a pressure differential that could force the crystal out of the watch case. Rolex engineers created a gas escape valve fitted with a spring: it opens when the difference in pressure between the inside and outside of the watch reaches 3 to 5 bars, allowing the helium to escape, thereby protecting the watch.



*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.

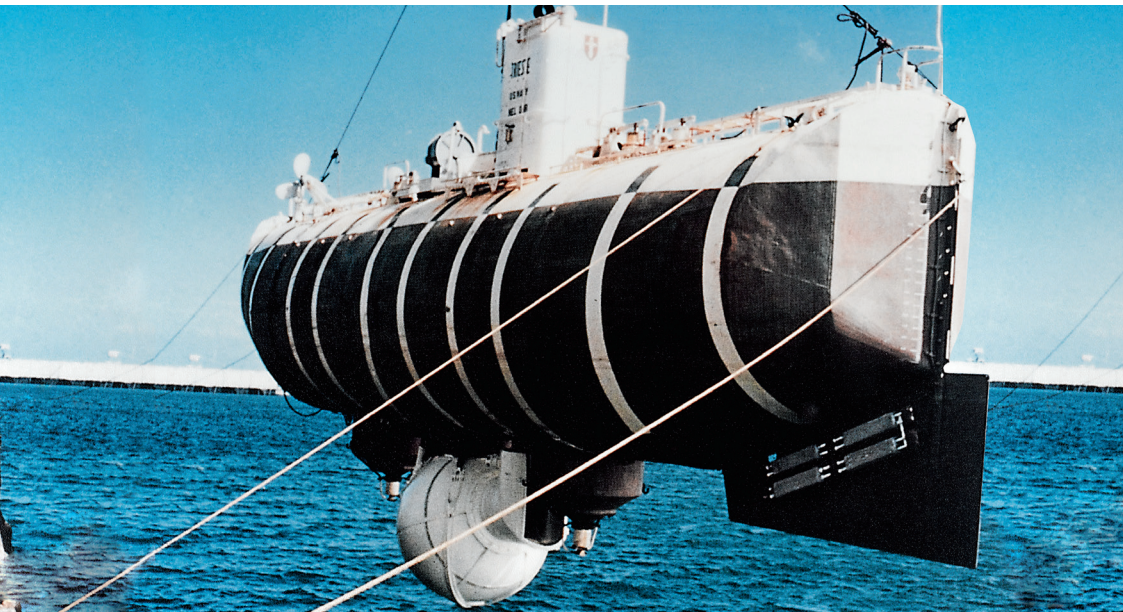


*Function of the Rolex Deepsea*

## 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.





*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*

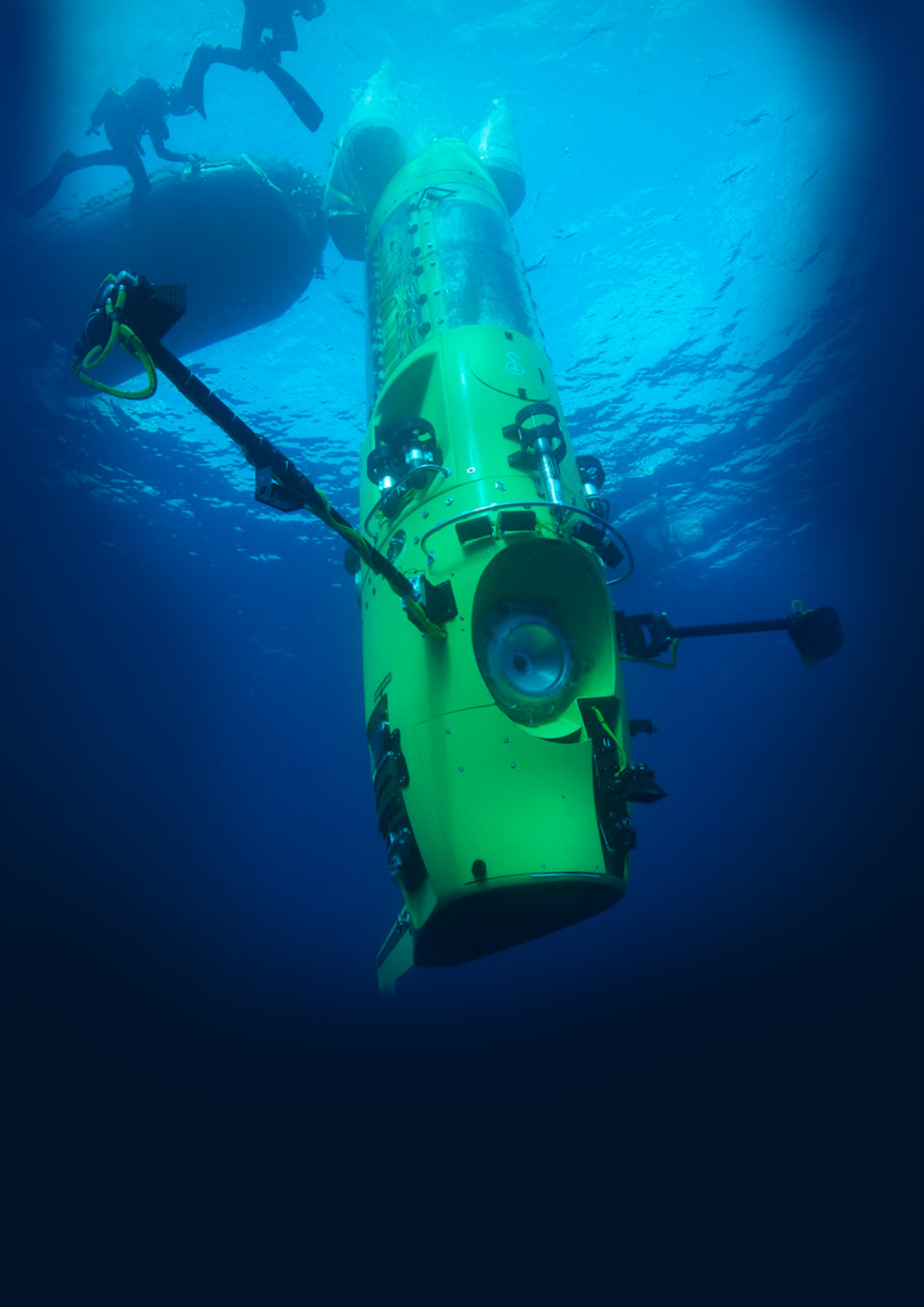
## JAMES CAMERON

*"The Rolex Deepsea Challenge was the reliable companion throughout the dive; it was visible on the sub's manipulator arm and working precisely at 10,898 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*

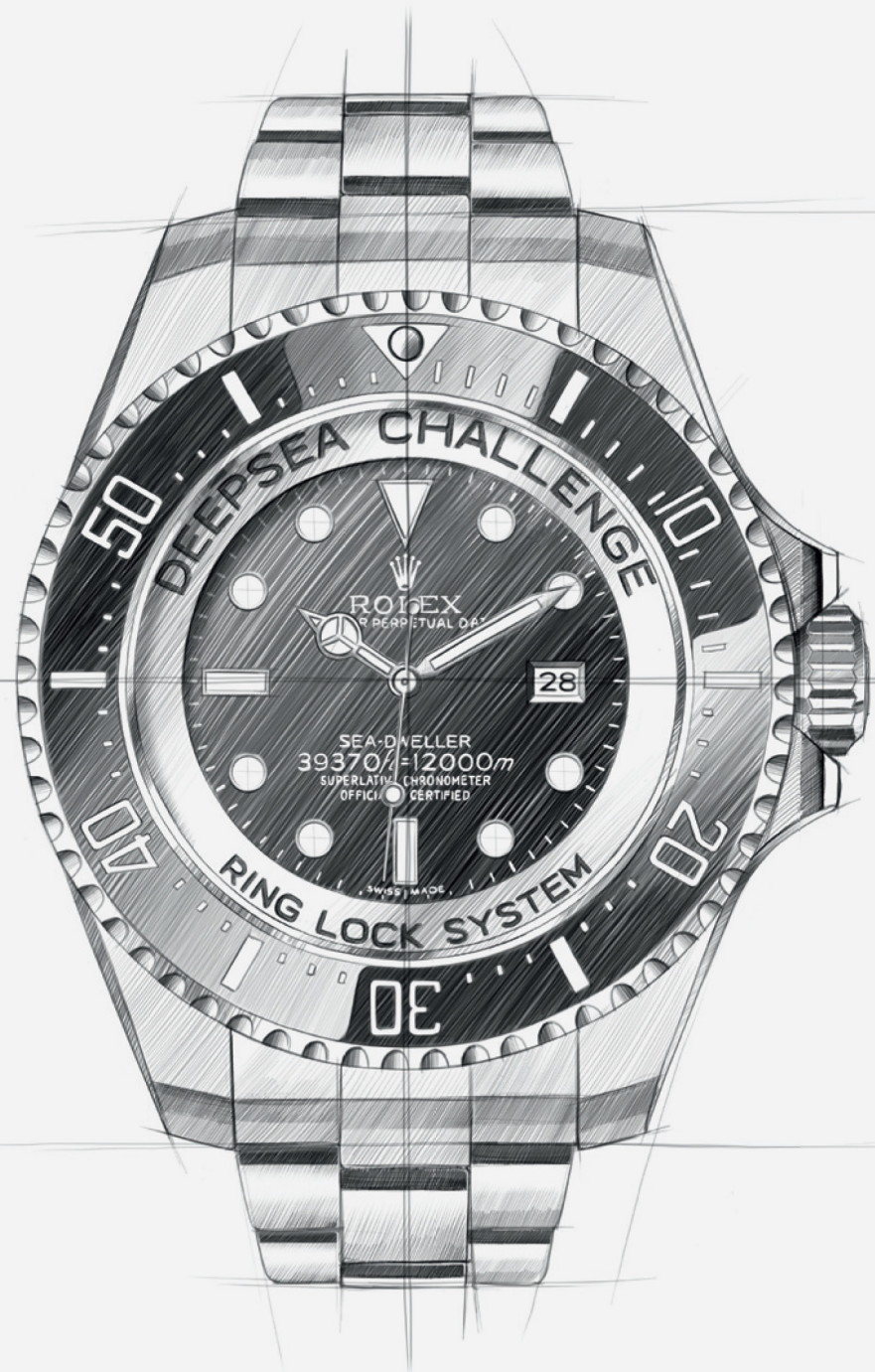




*Spirit of the Rolex Deepsea*  
THE DEEPEST  
PLACE ON EARTH



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 DEEPSEA  
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

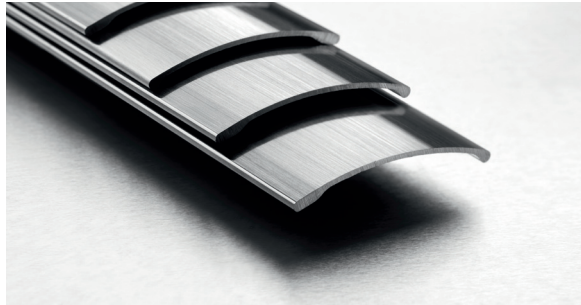


The patented Rolex Glidelock fine adjustment system allows divers to adjust the length of the bracelet for a secure and comfortable fit over a diving suit, without using any tools. A robust toothed panel under the clasp cover provides an extension of up to 20 mm in 2 mm increments. The mechanism is completely integrated into the design of the clasp. It provides a reliable closure... and peace of mind during dives.



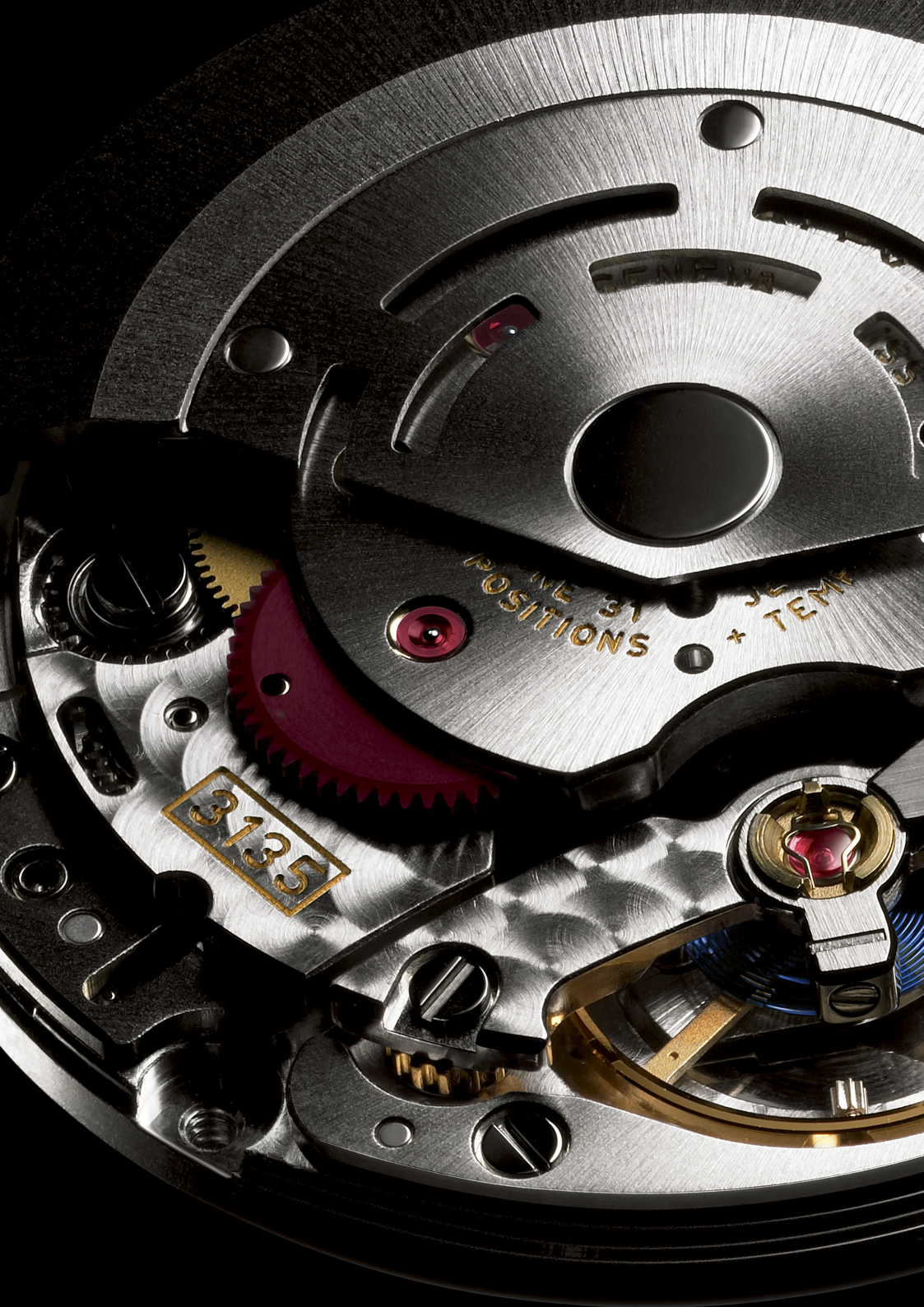
*Features*

## 904L STAINLESS STEEL



Rolex uses 904L stainless steel for its steel watch cases. 904L is mainly used in the high technology, aerospace and chemical industries, where maximum resistance to corrosion is essential. A superalloy, 904L is extremely resistant and highly polishable. It maintains its beauty even in the harshest environments. 904L steel also provides a perfect complement to the precious metals used by Rolex.





### *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*

## CERTIFIED SWISS CHRONOMETER



The four simple words Superlative Chronometer Officially Certified on a Rolex watch dial mean that the very movement inside the timepiece has endured 15 days and nights of testing by COSC (Contrôle Officiel Suisse des Chronomètres – Swiss Official Chronometer Testing Institute), an independent not-for-profit association.

To receive COSC certification as a Swiss chronometer, a watch must demonstrate extreme precision in a variety of positions and temperatures. Rolex is unique in the industry: this is the standard level of quality required of every Rolex wristwatch movement.



*The Rolex Deepsea Collection*

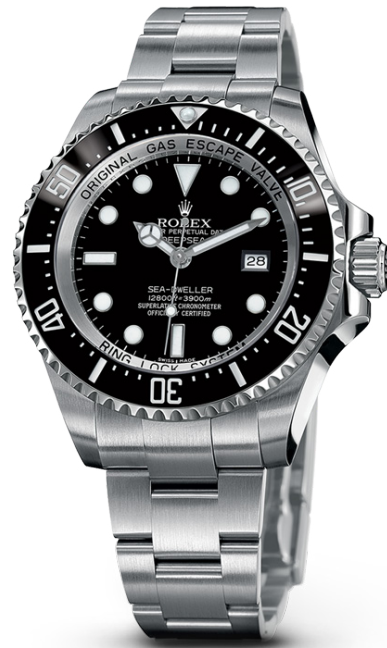
## ROLEX DEEPSEA

CASE 44 mm

904L steel and titanium alloy case back

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

MOVEMENT Mechanical, self-winding



116660



*Where to buy a Rolex*

## THE OFFICIAL ROLEX RETAILER

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