

The Oyster Perpetual
MILGAUSS



Oyster, 40 mm, steel
MILGAUSS

The Milgauss, introduced in 1956, was designed to meet the demands of the scientific community and is capable of withstanding magnetic fields of up to 1,000 gauss. It became known notably as the watch worn by scientists at the European Organization for Nuclear Research (CERN) in Geneva. The new-generation Milgauss, introduced in 2007, features several innovative components that enhance protection from magnetic interference.



Reference

116400GV

MODEL CASE

MODEL CASE

Oyster, 40 mm, steel

OYSTER ARCHITECTURE

Monobloc middle case, screw-down case back and winding crown

DIAMETER

40 mm

MATERIAL

904L steel

BEZEL

Smooth

WINDING CROWN

Screw-down, Twinlock double waterproofness system

CRYSTAL

Green sapphire, scratch-resistant

WATER-RESISTANCE

Waterproof to 100 metres / 330 feet

MOVEMENT

MOVEMENT

Perpetual, mechanical , self-winding , with a magnetic shield to protect the movement

CALIBRE

3131, Manufacture Rolex

FUNCTIONS

Centre hour, minute and seconds hands. Stop-seconds for precise time setting

PRECISION

Officially certified Swiss chronometer (COSC)

OSCILLATOR

Paramagnetic blue Parachrom hairspring

WINDING

Bidirectional self-winding via Perpetual rotor

BRACELET

BRACELET

Oyster, flat three-piece links

BRACELET MATERIAL

904L steel

CLASP

Folding Oysterclasp with Easylink 5 mm comfort extension link

DIAL

DIAL

Z-blue

DETAILS

Highly legible Chromalight display with long-lasting blue luminescence

Style of the Milgauss
**INSTANTLY
RECOGNISABLE**

The Milgauss has remained faithful to its scientific heritage and unique identity as it has evolved. With its clean lines and evocative orange seconds hand, shaped like a lightning bolt to echo the original model, the Milgauss is recognisable at a glance.





Function of the Milgauss

AN EFFICIENT SHIELDING SYSTEM

The first innovation at the heart of the Milgauss' resistance to magnetic interference is the shield inside the Oyster case. Made of ferromagnetic alloys selected by Rolex, it surrounds and protects the movement.

The symbol for magnetic flux density – the capital letter 'B' with an arrow – is engraved in this magnetic shield, but only Rolex-certified watchmakers will ever see it.

Function of the Milgauss

PARAMAGNETIC COMPONENTS

Several key components in the movement of the new-generation Milgauss are made of innovative paramagnetic materials, including the blue Parachrom hairspring. They were developed and are made in-house with advanced technology thanks to Rolex's unique command of the whole watchmaking process.

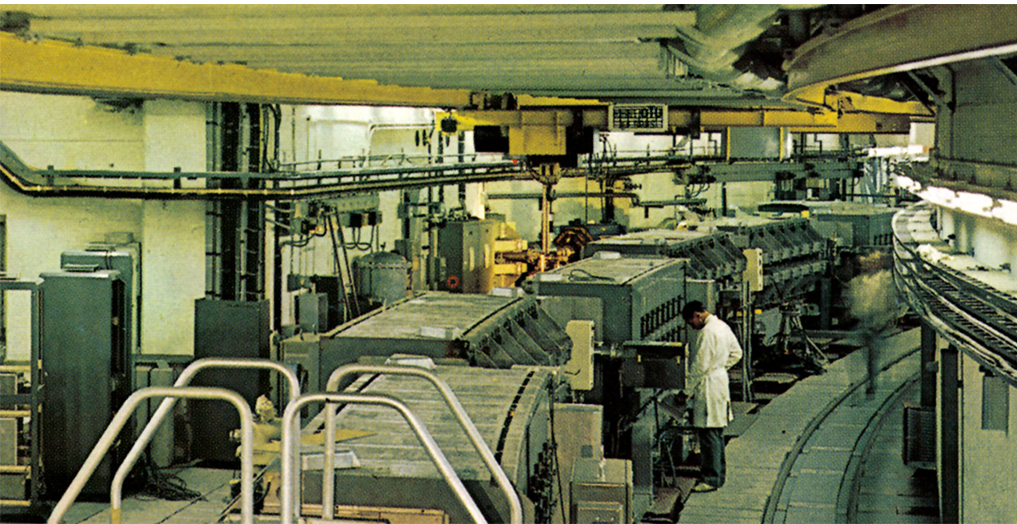


Spirit of the Milgauss

HISTORY OF THE MILGAUSS

The reliability and precision of an ordinary mechanical watch can be affected by a magnetic field of 50 to 100 gauss. But many scientists are exposed to much higher magnetic fields during the course of their work. Rolex's solution was the Milgauss, created in 1956, the first watch of its kind. Hence the name of the watch, mille being French for thousand.





Spirit of the Milgauss

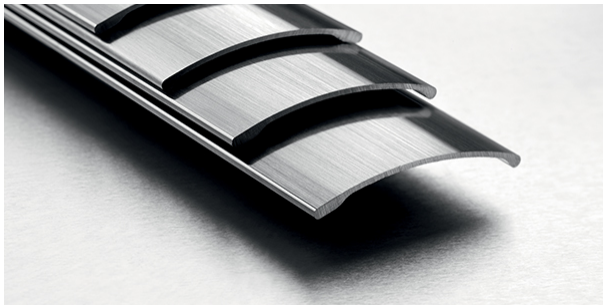
THE LARGEST LABORATORY, THE TINIEST PARTICLE

The European Organization for Nuclear Research (CERN), the world's pre-eminent particle physics laboratory, is at the cutting edge of scientific research into the fundamental secrets of the universe.

It hosts the world's highest-energy particle accelerator. In the 1950s, CERN was also one of the first scientific institutions to confirm that the Milgauss watch could indeed resist magnetic fields of up to 1,000 gauss.

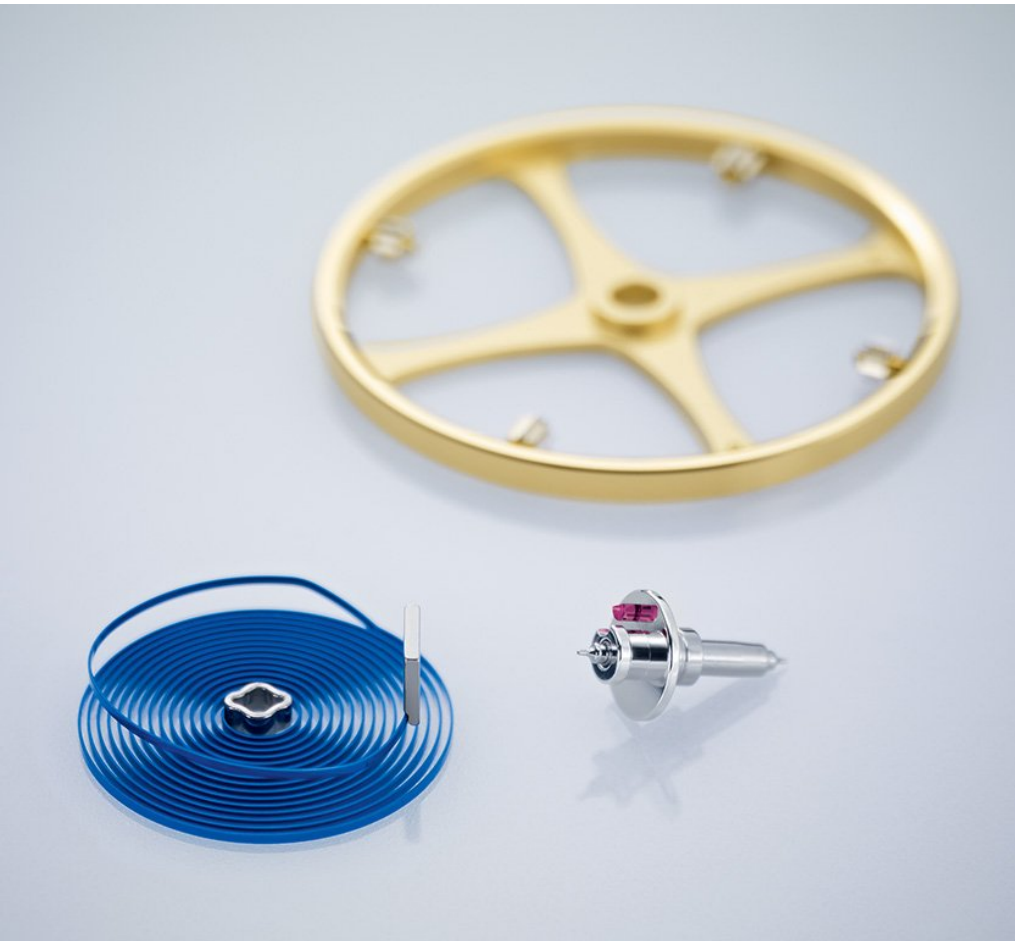
Features

904L STAINLESS STEEL



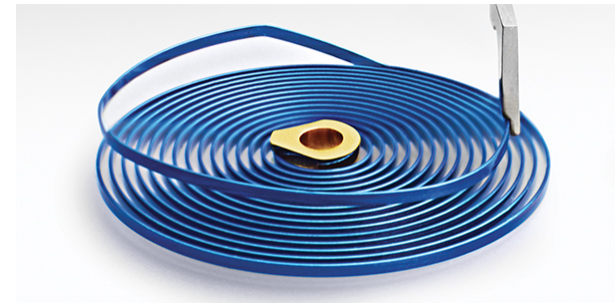
Rolex uses 904L stainless steel for its steel watch cases. 904L is mainly used in the high technology, aerospace and chemical industries, where maximum resistance to corrosion is essential. A superalloy, 904L is extremely resistant and highly polishable. It maintains its beauty even in the harshest environments.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





Features

THE PARACHROM HAIRSPRING



In a mechanical watch, the oscillator is the guardian of time. Conventional oscillator hairsprings are made of ferromagnetic alloys, leaving them vulnerable to magnetic fields, temperature variations and shocks that interfere with their precision. After years of research, Rolex created the blue Parachrom hairspring, which is finer than a human hair.

Crafted from a highly stable paramagnetic alloy that includes niobium and zirconium, it is insensitive to magnetic fields and up to 10 times more resistant to shocks. Historically, the unique blue color of the hairspring has been a sign of prestige reserved for only the most accurate timepieces.

Features

OYSTER BRACELET



The Oyster bracelet is a perfect alchemy of form and function, aesthetics and technology. First introduced in the late 1930s, this particularly robust and comfortable metal bracelet with its broad, flat three-piece links remains the most universal bracelet in the Oyster collection.







Features

3131 MOVEMENT

The Milgauss is equipped with calibre 3131, a self-winding mechanical movement entirely developed and manufactured by Rolex. It incorporates state-of-the-art technologies patented by the brand that ensure exceptional resistance to magnetic fields.

Like all Rolex Perpetual movements, the 3131 is a certified Swiss chronometer, a designation reserved for high-precision watches that have successfully passed the Swiss Official Chronometer Testing Institute (COSC) tests. 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.





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