

OYSTER PERPETUAL
MILGAUSS




ROLEX

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Rolex is presenting a new version of the Oyster Perpetual Milgauss with unique and symbolic aesthetics. Its green sapphire crystal marked a first in watchmaking when it was introduced on the Milgauss in 2007. Now this crystal is combined with an electric blue dial, an allusion to the emblematic lightning-bolt-shaped seconds hand and the watch's technical purpose as a paramagnetic timepiece designed for engineers and scientists in the 1950s, a golden age of scientific research. Seen through the green sapphire crystal, the Z blue dial – a name derived from its zirconium content – takes on a powerfully attractive magnetic hue.

AN AVANT-GARDE WATCH

Ever since its launch, the Milgauss has remained an avant-garde watch. It was created in 1956 for engineers and technicians who are exposed in their work to magnetic fields which disrupt the performance of mechanical watches. It was designed to resist strong interference of up to 1,000 gauss, hence its name – “mille” being French for thousand – while maintaining its performance and precision as an officially certified chronometer. A pioneer in magnetic resistance, it became known as the watch worn by scientists at the European Organization for Nuclear Research (CERN) in Geneva and gained a reputation as the ultimate watch of science and technological progress. Several innovations contribute to its resistance to magnetism. The first line of defence is a shield made of ferromagnetic alloys that surrounds the movement within the Oyster case, an invention patented by Rolex in 1954. The second line of defence involves two of the movement's key components, the oscillator and the escapement, which are made of innovative paramagnetic materials developed by Rolex since the 2000s.

THE OYSTER CASE, SYMBOL OF WATERPROOFNESS AND ROBUSTNESS

The 40 mm Oyster case of the Milgauss, guaranteed waterproof to a depth of 100 metres (330 feet), is a paragon of robustness and reliability. The characteristically shaped middle case is crafted from a solid block of particularly corrosion-resistant

904L steel. The fluted case back is hermetically screwed down with a special tool exclusive to Rolex watchmakers. The winding crown, fitted with the patented Twinlock double waterproofness system, screws down securely against the case. The crystal is made of virtually scratchproof green sapphire. The waterproof Oyster case provides optimal protection for the Milgauss's high-precision movement.

CALIBRE 3131, SUPERLATIVE PARAMAGNETIC CHRONOMETER

The Milgauss is equipped with calibre 3131, a self-winding mechanical movement entirely developed and manufactured by Rolex. 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. It includes Rolex-patented components to guarantee the level of resistance to magnetic interference for which it is named. The escapement of the Milgauss features a paramagnetic escape wheel made of a nickel-phosphorus alloy. This component is produced using a micromanufacturing technology (UV-LiGA) that is entirely mastered in-house. The oscillator, the true heart of the watch, has a blue Parachrom hairspring patented and manufactured by Rolex in an exclusive alloy of niobium and zirconium. Insensitive to magnetic fields, the Parachrom hairspring offers great stability when exposed to temperature variations and remains up to 10 times more precise than a traditional hairspring in case of shocks.

THE OYSTER BRACELET, COMFORTABLE AND SECURE

The Oyster bracelet of the Oyster Perpetual Milgauss is very secure and comfortable to wear. It is equipped with a folding Oysterclasp, designed by Rolex. It also features the ingenious Rolex-patented Easylink rapid extension system that allows the wearer to easily increase the bracelet length by approximately 5 mm, for additional comfort in any circumstance.



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Reference (case – bracelet):
116400 GV – 72400

TYPE	CASE Oyster (monobloc middle case, screw-down case back and winding crown) Internal magnetic shield to protect the movement
DIAMETER	40 mm
MATERIAL	904L stainless steel superalloy, polished finish
CASE BACK	Screw-down with Rolex fluting
BEZEL	Smooth
WINDING CROWN	Screw-down, Twinlock double waterproofness system
CRYSTAL	Scratch-resistant green sapphire
WATERPROOFNESS	100 metres (330 feet)
	MOVEMENT
CALIBRE	3131, <i>Manufacture Rolex</i> Mechanical movement with bidirectional self-winding via Perpetual rotor
PRECISION	Officially certified Swiss chronometer (COSC)
FUNCTIONS	Centre hour, minute and seconds hands Stop-seconds for precise time setting
OSCILLATOR	Frequency: 28,800 beats/hour (4Hz) Paramagnetic blue Parachrom hairspring Breguet overcoil Large balance wheel with variable inertia Paramagnetic nickel-phosphorus escape wheel High-precision regulating via four gold Microstella nuts Traversing balance bridge
JEWELLING	31 rubies
POWER RESERVE	Approximately 48 hours
	DIAL
COLOUR	Z blue
HOURLY MARKERS	Highly legible Chromalight appliques (long-lasting luminescence) in 18 ct white gold
HANDS	Chromalight hands in 18 ct white gold, orange lightning-bolt-shaped seconds hand
	BRACELET
TYPE	Oyster, three-piece solid links
MATERIAL	904L stainless steel superalloy, polished centre links, satin-finished outer links with polished edges
CLASP	Folding Oysterclasp Easylink 5 mm comfort extension link

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