

## WATCH LUNOKHOD: THE THIRD DIMENSION

The art world tends to realism. Artists apply to computers making their creations more deep and volume by three-dimensional graphics capabilities. Filmmakers use the latest 3D technology trying to arouse a sense of full presence for the audience at the events played out on screen. Watchmakers "animate" the mechanical work.

The famous inventor and watchmaker Konstantin Chaykin turned into reality his new development – volumetric and amazingly realistic Lunar phases indicator.

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«Chaykin Konstantin Yurievich is a design engineer and watchmaker. He was born in Saint Petersburg, Russia. Today he lives and works in Moscow. Since 2003 he designs and makes elite watches and clocks with complications of unusual astronomic functions. He is a member of Académie horlogère des créateurs indépendants (AHCI). The most complicated watch movements in Russia are made by maestro's hands. His ingenuity and encyclopedic knowledge can create entirely new, exclusive chronometric instruments.»  
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Lunar phases indicator is the most common watch complication. It is used to indicate the Lunar phases in current period of time. Traditionally Lunar phases indicators were created as rotating disks with the Orb of Night pictures painted on it. Through the window in the dial you can see fragments of the Lunar disk corresponding to the shape and size of current Lunar phase.

Some watchmakers and designers went further and made a three-dimensional rotating Moon with truly extraordinary options to specify its phases. Technical idea of the Russian inventor goes even further.

Bringing to perfection one of the most romantic watch complications Konstantin Chaykin put into his watch the most live, realistic watch Moon in the world - true tiny copy of the Earth satellite. A wootz ball which resembles the Lunar surface is placed at the center of the dial.

As well as the Orb of Night is always drawn to us with one of its part so the lunar globe in Konstantin Chaykin watch is fixed, and changing of phases is displayed by rotating of a silver half-sphere around, which symbolize the shaded part of the Earth's satellite. Such innovative solution of lunar phases indication is used for the first time.

For the case of the Moon watch Konstantin Chaykin chose an unusual material - wootz. And there is good reason. Complex patterned structure of this amazing steel recalls the relief of lunar surface. Large diameter watch made of the metal used for centuries in gunnery looks very manly.

As planned by the developers the watch in profile resembles outlines of a lunar rover. This idea gave the name to the original product of Fine Mechanics.

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«Historical note: Lunokhod was a self-moving scout-machine which first in the history worked for a long time on the surface of a celestial body. November 17, 1970 Lunokhod-1 was delivered to the Moon by the automatic interplanetary station "Luna-17" and landed on the territory of the lunar Mare Imbrium. Planet rover worked on the lunar surface from 11/17/1970 till 10/04/1971 - three times longer than initially calculated for its life! During its work it investigated 80 000 sq. meters of the lunar surface and the distance traveled was 10 km 540 m.»  
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Manufacture caliber of the watch Lunokhod is completely designed and developed by Konstantin Chaykin. Each part was polished by hand in the best tradition of watchmaking. The back cover is transparent to allow observing of complex and amazing life of micro details which drive the whole movement.

### Specification of "Lunokhod"

Movement: Size: 42,5x32x6.6 Balance vibration frequency: 21 600 wph Jewels: 31 Escapement: anchor Power reserve: 48 hours

Functions: hours indication, minutes indication, lunar phases indication, days and nights indication

Case: Size: 47,74 mm in diameter, thickness - 9 mm Materials: wootz

Glass: sapphire

Strap: leather

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