Item no.: 352289

70162 - UGEARS Tourbilon - Table clock stargazer, 338 pieces, 3D Puzzle

from **74,43 EUR**

Item no.: 352289
shipping weight: 1.20 kg
Manufacturer: UGEARS

Product Description

UGEARS Tourbilon - Table Clock Stargazer, 338 pieces, 3D Puzzle

The theory of the clockwork universe advocated by the 17th century deists held that the heavens and the earth and their movements functioned like a gigantic clock, with God as the clockmaker. It was assumed that the three basic laws of motion and Newton's law of gravity were sufficient to explain phenomena of all kinds using mechanical concepts. Mechanical concepts are the greatest thing for Ugears! Following Isaac Newton, we therefore present the Stargazer tourbillon table clock, a fascinating combination of imaginative astronomical observatory and functional table clock!

For years, Ugears fans from all over the world have asked us to develop a functioning clock model made of wood. With the gravity-driven Aero Wall Clock and the new spring-loaded Tourbillon Table Clock, we have answered that call twice over! Clocks are complex mechanisms. Surely you have never imagined yourself building a clock out of wood, let alone one that tells the exact time! But with Ugears models, you become a creative partner in an exciting mechanical adventure. To create this magnificent DIY clock in natural wood, our designers and engineers have had to deal with complicated problems of friction, gearing, tooth strength and torsion of the clock body and tourbillon axles under spring load. Now it's up to you: assemble the watch, set it in motion and become a watchmaker in your own steampunk universe.

What is particularly remarkable about this functional and beautiful wooden table clock model is the spinning tourbillon attached to the upper part. In wristwatches and pocket watches, the tourbillon mechanism helps to increase their accuracy by counteracting the effects of gravity when the watch is motionless in one position. By placing the escape wheel and balance wheel in a rotating cage, minor rate deviations caused by gravity are compensated for. In table and wall clocks, the tourbillon usually has a decorative purpose. This is also the case with the Sternengucker tourbillon table clock from Ugears. The design of the tourbillon ball is reminiscent of an observatory like those on Mauna Kea in Hawaii, with large telescopes scanning the celestial sphere. Is it perhaps making a star map? Or is it conducting astronomical infrared studies? Or is it even looking for new planets or signs of intelligent life?

The first prototype of a tourbillon was invented in 1795 by Abraham-Louis Breguet, who also managed to reduce the size of the mechanism and mount it in a pocket watch. More than a century later, in 1920, Alfred Helwig developed the "flying tourbillon". This was only attached to one side, so that the mechanism was now visible and gave the tourbillon an aesthetic function. Today, there are many versions of the tourbillon mechanism, including single-axis, double-axis or triple-axis models. What they all have in common, however, is that they represent a challenging technical task. That is why watches with tourbillons command a much higher price than models without this mechanism. The idea of using a DIY kit to build a tourbillon yourself out of wood material, without any glue or special tools, sounds pretty amazing, but amazement is something Ugears customers are used to.

The stargazer tourbillon mechanism has three axes of rotation: around the vertical axis of the clock, the horizontal axis of the clock and in relation to the central axis of the inner sphere. The windable watch works on the basis of the accumulation of potential energy in a flat spring and the measured release of this energy. When the model is fully wound, the timepiece is powered for around 2-3 hours. This provides enough time to look at this fascinating mechanism in detail or to enjoy the pleasant tick-tock in the background and the beautiful sight while working or resting. In contrast to the usual dial with hands, we have incorporated another interesting aspect in that the time is displayed on rollers. The minute roller rotates slowly with the progress of the tourbillon, while the hour roller marks the passing time with the help of a striking mechanism.

A mechanical adventure awaits you when you order your Stargazer Tourbillon Table Clock, an exciting addition to the Ugears catalogue of 3D puzzles, DIY models, automata, robots, wooden puzzle boxes and STEM Lab model kits. This kit is clearly not for beginners. But it is a great challenge for more experienced modellers. When assembling the tourbillon table clock, the complexity of the mechanism must be taken into account. Remember that your clock needs to be neatly and accurately assembled and lubricated to tell the exact time. Thanks to a balance wheel, the model's timekeeping can be readjusted if the clock is going too fast or too slow. And of course, you can set the current time by turning the reels: first the minutes, then the hours. Your stargazer clock comes with detailed instructions in 11 languages (English, German, French, Polish, Spanish, Ukrainian, Russian, Italian, Japanese, Chinese and Korean) with illustrations. If any part breaks during assembly, simply let our customer service team know. As part of our dedicated customer service, replacement parts will be supplied free of charge.

Caution.Not suitable for children under 36 months.

- Number of components: 338
- Construction time: 15 hrs
- Grade: High
- Model size: 30.5*18*16.5 cm
- Package size: 37.8*17*4.5 cm

Specifications

Scan this QR code to view the product
All details, up-to-date prices and availability