

Where does the tourbillon spring store energy

How does a tourbillon work?

However, the force of gravity in different positions causes it to not always move at the same rate, especially when the mechanism is in a vertical position. The tourbillon largely solves this problem by rotating the balance wheel at a constant rate along with other important components such as the escapement wheel, anchor, and hairspring.

What is a tourbillon & why is it important?

The tourbillon is an element that can greatly increase the value of a watch, yet few people know exactly what it is or what its purpose is. In fact, these types of watches are often confused with those that display the balance wheel through a window on the dial, also known as "open-heart" watches.

How does a tourbillon cage rotate?

The wheels of the going train deliver power from the mainspring to this pinion, which causes the cage to rotate. Tourbillon cages may take on a variety of styles, but like a balance wheel, should have high inertia while being as light as possible. Now that the cage is rotating, how is power delivered to the balance wheel?

How can I see the operation of a tourbillon?

To help visualize the operation of a tourbillon, we recommend that the reader view the videos and animations of tourbillons that are available on YouTube- . The tourbillon has always been a luxury add-on for pocket watches and, more recently, wristwatches.

Should a tourbillon cage be poised?

It should also be noted that just as the balance is poised (one should do so even when fitting to a tourbillon), the cage itself should be poised. This is usually done by adding weight to the cage opposite the position of the escapement, though there are other ways around it.

Why did Breguet create a tourbillon?

The purpose of Breguet's inspired creation was to combat the poise errors found in the balance, balance spring and escapement in vertical positions by rotating these timekeeping elements. (For more on the tourbillon and its history, read "A Brief History of the Tourbillon, available here.) So how does a tourbillon achieve this?



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