

# Reference 5470

Caliber CH 29-535 PS 1/10



*1/10<sup>th</sup> of a second monopusher chronograph.  
Platinum.*

Patek Philippe has taken on a new mechanical challenge with the unveiling of its first wrist-chronograph capable of measuring and displaying 1/10<sup>th</sup> of a second. The Manufacture has developed a new high-performance manually wound movement (7 patents pending) incorporating a high-tech Oscillomax<sup>®</sup> regulating organ. The two

concentric hands of the monopusher chronograph display the seconds and 1/10<sup>th</sup> of a second in a very precise and highly legible manner. This new Grand Complication model intended for connoisseurs and passionate devotees of technical timepieces is housed in a platinum case with a blue dial and calfskin strap embossed with a fabric pattern.



## Instructions

### WINDING CROWN

The winding crown is used to wind the watch (position 1) and to set the time (position 2). Never pull out the crown or activate the pushers or the correctors in a humid environment or underwater, as the water resistance of your watch would no longer be guaranteed under these conditions.

### WINDING

Your watch has a manually wound movement. When fully wound and with the chronograph disengaged, it has a power reserve of at least 48 hours. We recommend that you wind your watch each day at about the same time, preferably in the morning (about 25 clockwise turns of the crown).

**Caution:** Please wind the watch before you put it on. In this way, you can avoid lateral pressure on the winding stem which, if repeated, may damage the stem tube.

### DYNAMOMETRIC WINDING CROWN

Your watch is equipped with a dynamometric winding crown that eliminates any risk of damage to or failure of the winding mechanism when the watch is fully wound. When you turn the crown, you will notice a series of delicate clicks as soon as the mainspring is fully wound. These clicks are normal; they simply indicate that no further winding is required.

### SETTING THE TIME

To set the time, gently pull the crown all the way out and move the hands in either direction. Once you have set the correct time, push the crown home again.

Your watch has a stop-seconds mechanism that halts the seconds hand as soon as you pull the crown out to position 2. This allows you to synchronize your watch with an acoustic time signal to the exact second. As soon as you push the crown home (position 1), the seconds hand will start running again.

## 1/10<sup>TH</sup> SECOND CHRONOGRAPH

The Patek Philippe 1/10<sup>th</sup> second chronograph is a monopusher chronograph that measures and displays time intervals with one-tenth of a second accuracy. It has two large sweep hands – the chronograph hand – and the tenth of a second hand (red lacquered) – as well as a minutes hand on a 30-minute counter at 3 o'clock and a small seconds hand at 9 o'clock. Never activate the pusher in a humid environment or underwater, as the water resistance of your watch would no longer be guaranteed under these conditions.

Actuating the pusher at 2 o'clock sequentially activates the three following commands:

1. Simultaneously start the chronograph and 1/10<sup>th</sup> of a second chronograph hands.
2. Simultaneously stop the chronograph and 1/10<sup>th</sup> of a second chronograph hands.
3. Reset the chronograph and 1/10<sup>th</sup> of a second chronograph hands.

When performing a timing operation, the central hand of the chronograph enables you to read off the number of seconds elapsed in the usual way. To do this, simply look at the corresponding number of seconds on the beaded minute-track (on which each bead corresponds to one second). The central tenth of a second hand shows the number of tenths that have elapsed since the last red subdivision. Each large red segment on the outer railway scale corresponds to one second, while the small white segments correspond to one-tenths of a second. Finally, don't forget to read the number of minutes elapsed in the instantaneous 30-minute counter positioned at 3 o'clock. The tenth of a second hand makes one full turn of the dial in 12 seconds, which is five times faster than a sweep seconds hand. It is this technical feature that makes it possible to read tenths of a second easily and accurately.

*Note : the difference in the speed of rotation of the two central hands means that during a timekeeping session, these two hands are superimposed every 15 seconds. We advise against running the chronograph permanently; this could cause premature wear of the mechanism.*

## Care and Maintenance

### **WATER RESISTANCE**

Your watch is fitted with different types of seals to protect the movement against the ingress of dust and moisture and to prevent damage if it is immersed in water. However, if your watch receives a blow to the crown or the crystal, its water resistance may be impaired.

### **SERVICE**

We recommend that you have your watch serviced every 8 to 10 years. The best way to do this is to bring your watch to an Authorized Patek Philippe Retailer who will be happy to forward it to our workshops for you. You can then be assured that your watch will be inspected and overhauled by a qualified master watchmaker at Patek Philippe headquarters in Geneva. The watchmaker will completely disassemble the movement and then inspect, clean, and lubricate all the individual parts prior to reassembly. All functions of the watch will also be tested in detail and the escapement regulated if necessary. Finally, its rate accuracy will be monitored and precision-adjusted for a further period of two weeks. The entire process may take several weeks because each watch must undergo a complete series of tests to fulfill the strict quality criteria of Patek Philippe. If you have any questions regarding the maintenance of your watch, contact the Authorized Patek Philippe Retailer nearest you or our International Customer Service department in Geneva, or visit [www.patek.com](http://www.patek.com).

### **CHANGING THE CASE BACK**

Your watch comes with a sapphire-crystal case back as well as with an interchangeable solid-metal back. Only our watchmakers at the Patek Philippe workshops in Geneva are authorized to replace this case back.

### **PATEK PHILIPPE SEAL**

The Patek Philippe Seal applies to the entire watch, including the movement, case, dial, hands, pushers, strap, and clasp as well as to all other facets that contribute to the precision and aesthetic perfection of the timepiece. It covers the technical, functional, and aesthetic factors, but also rate accuracy, dependability, and customer service quality. Additionally, it reflects the maker's know-how and all other assets needed for the development, production, and long-term maintenance of an extraordinary timekeeping instrument.

## Specifications of the movement



CALIBER:	CH 29-535 PS 1/10, MANUAL WINDING
DIAMETER:	29.60 MM
HEIGHT:	6.96 MM
NUMBER OF PARTS:	347
NUMBER OF JEWELS:	38
POWER RESERVE:	WITH THE CHRONOGRAPH DISENGAGED: MIN. 48 HOURS
BALANCE:	GYROMAX® IN SILINVAR®
FREQUENCY:	36,000 SEMI-OSCILLATIONS PER HOUR (5 HZ)
BALANCE SPRING:	SPIROMAX®
ESCAPEMENT:	PULSOMAX® WITH LEVER AND ESCAPE WHEEL IN SILINVAR®
HALLMARK:	PATEK PHILIPPE SEAL