PATEK PHILIPPE
GENEVE

THE CALIBER 89

The most complicated watch in the world

The Calibre 89 is the most complicated watch in the world; independently of our mean time (hours, minutes and seconds), it gives or incorporates the followings functions: hours, minutes and seconds of sidereal time, time in a second time zone, time of sunset and sunrise, equation of time, *tourbillon* regulator, perpetual calendar, century leap year correction, date of the month, century, decade, year, day of the week, months, four-year cycle, sun hand (season, equinox, solstice, zodiac), stars chart, age and phases of the moon, date of Easter, chronograph, split-seconds, 30 minute recorder, 12 hour recorder, Gr*ande Sonnerie* with carillon, *Petite Sonnerie* with carillon, minute-repeater, alarm, going train up-and-down indication, striking train up-and-down indication, striking train stop work, twin barrel differential winding, four-way setting system and winding-crown position indication.

The Calibre 89 was produced to commemorate the 150th Anniversary of PATEK PHILIPPE & C° in 1989. Four watches were produced; the prototype is now exhibited in the PATEK PHILIPPE MUSEUM in Geneva.

Total development time	9 years
• Research and development	5 years
• Manufacture	4 years
Total diameter	89 mm.
Total thickness	41 mm
Total weight	1100 grams
Case	18 ct. Gold
Number of components	1728, including:

- 184 wheels
- 61 bridges
- 332 screws
- 415 pins
- 68 springs
- 429 mechanical parts
- 126 jewels
- 2 main dials
- 24 hands
- 8 display dials

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THE CALIBER 89

Functions

- Hours, minutes and seconds of sidereal time
- Time in a second time zone
- Time of sunset and sunrise
- Equation of time
- *Tourbillon* regulator
- Perpetual calendar
- Century leap year correction
- Date of the month
- Century, decade and year
- Day of the week
- Months
- Four-year cycle
- Sun hand (season, equinox, solstice, zodiac)
- Stars chart
- Age and phases of the moon
- Date of Easter
- Chronograph
- Split-seconds
- 30 minute recorder
- 12 hour recorder
- Gr*ande Sonnerie* with carillon
- *Petite Sonnerie* with carillon
- Minute-repeater
- Alarm
- Going train up-and-down indication
- Striking train up-and-down indication
- Striking train stop work
- Twin barrel differential winding
- Four-way setting system
- Winding-crown position indication

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Calibre 89

Movement
Front of the main plate:
- Minute-repeater
- Alarm
- 12-hours counter
- Power-reserve indication

Movement
Back of the main plate:
- Split-second chronograph
- 30-minutes counter
- Tourbillon escapement
- Regulation of the chime speed
- The four gongs of the chime
- The gong of the alarm

Sidereal plate
All the functions of the sidereal calendar
- Date of Easter

Prototype of its functioning
Mechanism of the date of Easter until 2017
Patek Philippe Patent with indicator of cam-replacement in 2018

Calendar plate
All the functions of the secular perpetual calendar
Patek Philippe Patent:
- Day (with aperture)
- Date (with retrograde hand)
- Month (with aperture)
- Millesimal number (with aperture)
- Leap year cycle (with aperture)
- Phases and age of the moon

Prototype of its functioning
Mecanism of the secular retrograde perpetual calendar

Transversal view
Central watch staff:
- Trains of wheels
- Hands
- Celestial map (2800 stars), Geneva latitude