



ARNOLD & SON

1764

Royal Collection – Tourbillon Chronometer No.36 Gunmetal

Beauty through contrast: Presenting the Tourbillon Chronometer No.36 Gunmetal

Dark grey and rose gold tones for a striking new edition of the Tourbillon Chronometer No.36. Drawing inspiration from the John Arnold pocket chronometer No. 1/36, Arnold & Son pays homage in a contemporary yet faithful manner to one of the most historically significant chronometers.



Tourbillon Chronometer No.36

Manufacture Arnold & Son A&S8600 calibre, hand-wound, rhodium treated open dial, sandblasted stainless steel case with dark grey DLC ("gunmetal") coating, diameter 46 mm

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The John Arnold Chronometer No. 1/36 or “Arnold 36” as it is more commonly called was not only the first pocket watch by John Arnold to use a larger movement with his “T” balance, but also the first to be referred to as a “chronometer” for its superior timekeeping capabilities. In this respect, the Tourbillon Chronometer No.36 is faithful, contemporary horological homage.



John Arnold's pocket chronometer no. 1/36
© National Maritime Museum, Greenwich, London

John Arnold (1736-99) successfully found the way to simplify Harrison's timekeeper design. This watch, No 1/36, made in 1778, went so well on trial at Greenwich that Arnold decided to give it a new name. In the pamphlet he published in 1780 advertising his achievement, he called the timekeeper a 'chronometer' and was thus the person who invented the term in its modern sense. The watch is in fact a pocket chronometer housed in a 22-carat gold case.



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The new sober gunmetal coating of the case further highlight the mechanical complexity and *haute horlogerie* finishing of these magnificent timepieces. The gunmetal coating also pays tribute to the old English fine gunsmith tradition, which is closely related to traditional watchmaking and share many common techniques.



Tourbillon Chronometer No.36

sandblasted stainless steel case with dark grey DLC (“gunmetal”) coating, diameter 46 mm

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Following the classical codes of traditional English chronometer movements, the main pivoting elements such as the wheels, barrels, the tourbillon, and others are each mounted on their own bridge. The triangular, multilevel bridges (no less than thirteen) are mostly skeletonized, providing a more contemporary sense of three-dimensional depth to the entire timepiece.

The tourbillon, a central element of this timepiece, is highlighted in a most magnificent manner. Held by a skeletonized and mirror-polished top bridge, the one-minute tourbillon features a typically Arnold & Son three-spoke design. Weighing mere



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fractions of a gram, the tourbillon cage consists of no less than 58 components. Prominently positioned on the dial side, the tourbillon can also be viewed from the back, thanks to an opening in the main plate. The same kind of opening is made below the small seconds display, adding to the symmetry of the Tourbillon Chronometer No.36.

The apparent technical virtuosity of the Tourbillon Chronometer No.36 is not only a treat for the eyes, as the watch is a COSC certified chronometer; something of a rare achievement for a tourbillon-equipped timepiece.



Manufacture A&S calibre A&S8600
Hours, minutes, small seconds and tourbillon
© Arnold & Son

The decorative *haute horlogerie* arts are also lavishly demonstrated in the Tourbillon Chronometer No.36. The entirely in-house conceived and manufactured A&S8600 calibre features a smooth sand-blasted main plate and bridges with chamfered and polished edges. The main plate and bridges are treated with a golden coating, echoing the aesthetics of the historical pocket watches made by John Arnold. The main plate also is set with several mirror-polished 18k gold chatons, while the wheels in the gear train are embellished with circular satin finishing with chamfered and polished edges. Even the screws are beveled and feature with mirror-polished heads.

The heart of the watch, the tourbillon, features a traditional construction with a top bridge, while the mirror-polished cage has the signature Arnold & Son three-spoke design, making a complete turn in 60 seconds.

The double barrels, embellished with laser-engraving decoration, provide a considerable power reserve of 90 hours when fully wound.

The Tourbillon Chronometer No.36 Gunmetal is limited to 28 examples.



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Main technical characteristics:

Tourbillon Chronometer No.36

Calibre:	A&S8600
	Manufacture Arnold & Son calibre, hand-wound, 33 jewels, diameter 37.8 mm, thickness 5.9 mm, power reserve 90 h, double barrel, 4 Hz / 28'800, COSC certified
Functions:	Hours, minutes, small seconds, tourbillon
Movement decoration:	Nickel-silver and steel movement, 5N red gold treated bridges and main plate with <i>Haute Horlogerie</i> finishing: sand blasted bridges with chamfered and polished edges, 18k gold chatons, screws with bevelled and mirror-polished heads <u>Tourbillon cage</u> : mirror-polished with hand-chamfered polished edges and circular satin-finished surfaces
Dial:	Inner bezel Rhodium treated with black indexes
Case:	Sandblasted stainless steel case with dark grey DLC ("gunmetal") coating, diameter 46 mm, cambered sapphire with anti-reflective coating on both sides, see-through sapphire case back, water-resistant to 30 m
Strap:	Hand-stitched brown or black alligator leather
Limited edition:	28 timepieces
References:	1ETAS.B01A.T113S

Recommended Retail Prices:

- Gunmetal case, CHF 36'400 (VAT excl.)

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