



ARNOLD & SON

SINCE 1764

**Instrument Collection – CTB
BASELWORLD 2014 Novelty**

**Arnold & Son Unveils the World's First True Beat Seconds and
Chronograph Wristwatch: the Instrument CTB**

With rich British heritage and unparalleled style, Arnold & Son never ceases to amaze and delight watch lovers with its deft blend of respected watchmaking tradition, visionary ingenuity and untiring commitment to excellence. A grand example of the brand's unflagging *Haute Horlogerie* prowess can be found in the all new CTB – a world premiere.



CTB

Exclusive Arnold & Son mechanical movement A&S7103, self-winding, light-grey and silvery opaline dial, stainless steel case, diameter 44 mm

© Arnold & Son

Arnold & Son SA, Switzerland, March 2014



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The CTB joins Arnold & Son's Instrument Collection – and, like every other model from Arnold & Son, features an in-house mechanical movement. This line is inspired by the timepieces produced during the second part of John Arnold's life when he and his son, John Roger, dedicated themselves to the quest for absolute precision (thereby establishing themselves as official suppliers to the Royal Navy).



CTB

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Underscoring its continued commitment to forward-thinking precision, Arnold & Son's watchmaking experts masterfully rose to challenge of creating a World's First in a wristwatch: a chronograph with a central true beat seconds hand. The magnificent CTB represents the brand's second chronograph and blends the iconic Instrument Collection complication of a true beat seconds, while at the same time remaining true to the line's optic code of superb legibility. This aesthetic direction has been achieved by incorporating a central true beat seconds hand and a central chronograph seconds hand – both on the same axis but with different jumping intervals. A huge technical challenge to have both functions operating from the centre, Arnold & Son's unique invention is protected by two patents.



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Sometimes referred to as a dead beat seconds, the true beat seconds is a precision function wherein the seconds beat incrementally as opposed to sweeping along the dial – allowing for more accurate reading. To accomplish this function in and of itself is no easy feat. However, Arnold & Son has taken the idea to new heights by incorporating the true beat seconds on the same axis as the chronograph seconds hand. The result, when the continually running chronograph hand is started, is visually amazing. It gives the impression that it can catch up to the true beat seconds hand, but this never happens since the true beat seconds hand jumps away each second in a delightful and entrancing game of cat and mouse.

The A&S7103 calibre is a proprietary mechanical self-winding movement with column-wheel operated chronograph. The movement is configured to give optimum balance and beauty to the dial, with off-centered hour and minutes at 12 o'clock, big central true beat seconds and central chronographs seconds, and 60-minutes chronograph indicator at 6 o'clock. The 31-jewel movement beats at 28,800 vibrations per hour and offers more than 50 hours of power reserve. This world's-first timepiece also offers the efficiency of bi-directional winding thanks to ceramic ball bearings.

Each movement is NAC grey treated and meticulously completed in *Haute Horlogerie* finishing with hand-chamfered bridges with polished edges, fine circular graining and *Côtes de Genève rayonnantes*, brushed and skeletonised rotor, and screws with bevelled and mirror-polished heads. The 44 mm stainless steel timepiece is offered with a light-grey and silvery opaline dial. The dial has a complex multi-level structure with at least three different finishes that offer breathtaking depth and dimension.



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Main technical characteristics:

Calibre:	A&S7103
	Exclusive Arnold & Son mechanical movement, self-winding, column-wheel, ceramic ball bearing, 31 jewels, diameter 30.4 mm, thickness 8.5 mm, power reserve 50 h (without chronograph), 28,800 vibrations/h
Functions:	hours, minutes, true beat seconds, chronograph
Movement decoration:	NAC grey treated with <i>Haute Horlogerie</i> finishing: hand-chamfered bridges and polished edges, fine circular graining and <i>Côtes de Genève rayonnantes</i> , circular satin-finished wheels, screws with bevelled and mirror-polished heads. Oscillating weight: skeletonised with brushed surfaces
Dial:	light-grey and silvery opaline
Case:	Stainless steel, diameter 44 mm, cambered sapphire with anti-reflective coating on both sides, see-through sapphire case back, water-resistant to 30 m
Strap:	Hand-stitched black or brown alligator leather
Reference:	1CHAS.S02A.C121S

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