



PRECISION ENGINEERING AG
INDEPENDENT RELIABLE SOLUTIONS

PRESS RELEASE

PRECISION ENGINEERING AND H. MOSER & CIE. PRESENT THEIR PARAMAGNETIC HAIRSPRING.

Neuhausen am Rheinfall, November 22nd, 2016

In a world where everything goes faster, stronger, further, the constraints facing watches are increasingly high: resistance to shocks and magnetic fields, while ensuring accuracy and a power reserve. Together with sister company H. Moser & Cie., Precision Engineering AG rises to this challenge and launches a new alloy, PE5000. Shock resistant and paramagnetic, this material will be integrated for the first time in a very special edition, the Venturer Small Seconds XL, in a limited edition of 10 pieces. H. Moser Owners may acquire these watches and take part in a series of tests to confirm the chronometric performance of this escapement of the future.

An alloy of niobium and titanium, PE5000 has highly valuable characteristics for the regulating organs of mechanical watches. As a paramagnetic material, it is extremely resilient and has such remarkable elastic properties that a hairspring made from this alloy is not affected by impacts. This is an invaluable asset for the oscillator of a mechanical watch, constantly in motion and subject to significant constraints.

The alloy of niobium and titanium has a great affinity for oxygen, which results in the challenge of greater wear on tooling; however, the manufacturing processes overall are similar to those for producing traditional hairsprings, in all steps taken to shape the material. As a producer of regulating organs, Precision Engineering has the expertise needed for this new technology.

PE5000 represents a very interesting alternative to silicon, which is also non-magnetic and shock resistant, with the disadvantage of not allowing any adjustments. Niobium-titanium, in contrast, can be adjusted by the watchmaker to optimise the watch's performance if necessary. Precision Engineering joins the few manufacturers capable of producing paramagnetic escapements, a major advantage in the Swiss watch industry. With a new label, synonymous with quality and precision: Precinergy.

The first client for Precision Engineering, H. Moser & Cie. has the premiere of their niobium-titanium hairsprings. The Manufacture also joined Precision Engineering in watch movement tests in a zero gravity environment to test the properties of PE5000. For the first series of watches with this paramagnetic hairspring, H. Moser & Cie. chose the Venturer Small Seconds XL. The bezel, refined and elegant, opens onto the convex dial, enhanced by the curved sapphire crystal. And to add to this unique series, a new dial is introduced just for this exclusive watch: a deep blue fumé. Blue, a colour synonymous with quality in traditional watchmaking, is also used in the balance bridge and balance wheel, thanks to a special finish that gives a depth to the escapement.



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TECHNICAL SPECIFICATIONS – VENTURER SMALL SECONDS XL PARAMAGNETIC

Reference 2327-0206, white gold model, blue fumé dial, midnight blue alligator strap

Case

18-carat white gold, three-part

Diameter: 43.0 mm, height: 12.6 mm

Curved sapphire crystal

See-through sapphire crystal case-back

Crown adorned with an “M”

Dial

Blue fumé with sunburst pattern

Applique indices and leaf-shaped hands

Movement

In-house hand-wound small seconds calibre HMC 327

Diameter: 32.0 mm or 14 ¼ lignes, height: 4.5 mm

Frequency: 18'000 vib/h

29 jewels

Power reserve: minimum 3 days

Hacking seconds

Moser teeth for all wheels and pinions

An original Precision Engineering Paramagnetic Hairspring® with a stabilised Breguet overcoil

Functions

Hour, minute and small seconds

Power reserve indicator on movement side

Strap

Hand-stitched midnight-blue alligator leather

18-carat solid white gold pin buckle engraved with Moser logo

REFERENCE & PHOTOS

Reference 2327-0206, Venturer Small Seconds XL, white gold model, blue fumé dial, midnight-blue alligator leather strap.





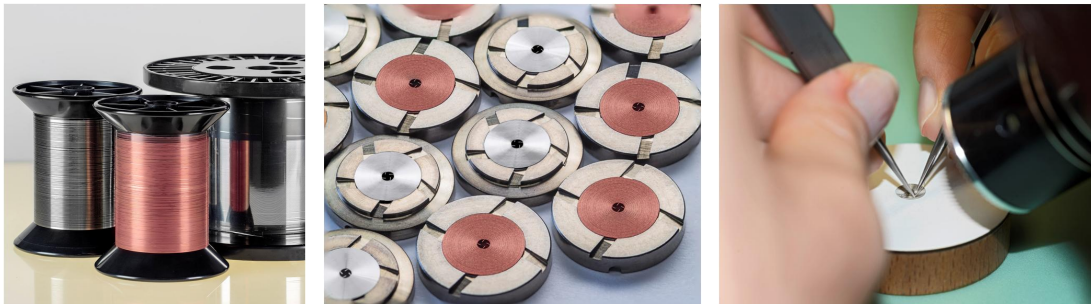
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An original Precision Engineering Paramagnetic Hairspring® with a stabilised Breguet overcoil; the H. Moser & Cie. in-house hand-wound small seconds calibre HMC 327.



The new paramagnetic alloy developed by Precision Engineering AG: PE5000



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PRECISION ENGINEERING AG

Precision Engineering AG (PEAG) is a specialist in watch movement components for escapements, including the development from initial design to final production of a quality product ready to be integrated into a watch movement it must regulate. Precision Engineering is one of the only companies in the world able to develop and manufacture alloys for the manufacture of self-compensating hairsprings. With its innovative concepts, client orientation and its unique material expertise in manufacturing and assembly of escapement components, Precision Engineering is able to define and make the product perfectly matched to the needs of its customers. Precision Engineering is an independent company incorporated into Moser Watch Holding in 2012. Thanks to the entrepreneurial spirit instilled in PEAG during this reorganization and further investments in the production facilities, Precision Engineering works today with the biggest names in the Swiss watch industry.

H. MOSER & CIE.

H. Moser & Cie. was created by Heinrich Moser in 1828. Based in Neuhausen am Rheinfall, it currently employs 50 people, has eight of its own calibres and produces 1,200 watches per annum. H. Moser & Cie. manufactures parts such as regulating organs and balance-springs, which are used for its own production as well as to supply its partner companies. H. Moser & Cie. is honoured to have a Moser family member with the company as Honorary Chairman and President of the Heinrich and Henri Moser Foundation. The aim of the Moser Foundation, created by one of Heinrich Moser's descendants, is to keep the family history alive and seek out antique pieces for the Moser Museum, located in Charlottenfels Manor, Heinrich Moser's family home. With its substantial watchmaking expertise and highly acclaimed experience in the sector, MELB Holding holds shares in H. Moser & Cie. and Hautlence. MELB Holding is an independent family group, based in the heart of the legendary Vallée de Joux.