

Vintage look automatic hammer. Moritz Grossmann launches HAMATIC Vintage with shiny 'black-or' dial and vintage 'M. Grossmann' logo from 1875

Traditional automatic hammer winding system with pendulum weight reveals a peek of the intricate mechanics and converts even the smallest movement into impressive winding power

- HAMATIC Vintage limited to 25 watches worldwide
- Highest standards of craftsmanship
 - Mirror polished 'black-or' dial with shiny black surface
 - Vintage 'M. Grossmann' logo from 1875
 - The open hammer body in the centre brings the perfection of Grossmann's watchmaking craftsmanship and the highest level of finish to life
 - The finest, handcrafted hands measure 0.1 mm in width at the narrowest points
- Special features
 - Specially designed movement based on the traditional hammer mechanism from the 19th century renders the HAMATIC unique in terms of its mechanics and beauty
 - Even the slightest arm movement provides winding power
 - Hammer winding mechanism with reduction gear works in both directions
 - Even winding via two click wheels ensures high efficiency

What is it that connects people with time? Both are perpetually in motion. As the famous proverb says, 'a rolling stone gathers no moss', which reminds us of the benefits of an active lifestyle. This takes energy. Mechanical watches have been wound by hand for centuries - by turning a crown, a crank, a key or by hoisting weights on a chain. How can we fulfil the dream of a mechanism that makes

consciously winding the watch superfluous? The answer is given by man himself. The movement of the watch wearer supplies the self-winding watch with the energy it needs.

Grossmann's aesthetics - interpreting the traditional automatic hammer makes the most beautiful mechanics come alive

The HAMATIC Vintage draws its kinetic energy from the arm movement of the watch wearer. The movement of the arm continuously deflects a pendulum in the shape of a hammer with a heavy gold hammer head. This kinetic energy is transferred via the ratchet wheel to the mainspring in the barrel and winds the watch.

Inspired by the vintage idea, the Moritz Grossmann designers adopted the traditional concept of an automatic hammer winding system from the 19th century and refined it according to the principles of Grossmann's supreme craftsmanship, resulting in a new movement.

The elaborate design of the hammer mechanism, known as the HAMATIC for short, provides a stage for the strikingly crafted gold hammer head and reveals the fascinating mechanics and exceptional finish of Grossmann's 106.0 movement. The oval hammer body is open in the middle, offering a clear view of the beauty of the highly sophisticated mechanism.

Vintage style dial with shiny black-or surface

The new version of the HAMATIC in 750/000 white gold comes with a vintage style dial and is limited to 25 models worldwide. The dial has been given a new and exclusive finish. The surface was first painted in a black-anthracite colour. The mirror-polished background on a German silver base was then treated with a finish called 'black or', which created a shiny black surface.

Large Roman numerals in white form an attractive contrast to the black dial of the HAMATIC Vintage. The vintage 'M. Grossmann' logo from 1875 and handcrafted polished - hands measuring a mere 0.1 mm wide are an homage to the old pocket watches of Moritz Grossmann.

Calibre 106.0 - Bidirectional automatic hammer winding mechanism transfers even the slightest arm movements to wind the mainspring

The calibre 106.0 was especially designed for the HAMATIC. This classic pillar movement has a 2/3 plate and six Glashütte stripes.

The hammer winding mechanism works in two directions and winds the watch, regardless of the direction in which the watch wearer moves his arm. The winding mechanism via two click wheels is also highly energy efficient. The alternating, even winding over both wheels ensures that the mechanism is highly reliable. A power reserve of 72 hours is available when the movement is fully wound, which means that the HAMATIC continues to run for three days without any further movement.

Another advantage of the hammer-style pendulum system is that the hammer's centre of mass is further away from its rotational axis in the HAMATIC. This results in a high torque, which means a powerful force acting on the spring. Hammer movements from just five degrees, which correspond to an oscillation of 2 mm, are used to wind the mainspring. The constant winding when the watch is worn also ensures that the spring is evenly tensioned, thus ensuring a high degree of precision.

Compensating for quick and slow movements by means of stop springs

The newly designed movement offers a further advantage. People do not always move in the same way. Movements are fast and slow. The former generate excessive deflections of the hammer body, which need to be attenuated and limited by fixed end stops. This shock absorption is ensured by intricately crafted end springs in the hammer frame. More gentle movements, on the other hand, result in a lower hammer amplitude. Friction losses are virtually non-existent and energy transmission is nearly loss-free.

Reduction gear with yoke winder manual or automatic winding of the movement possible

In order to achieve a continuous rotary motion of the wheels for winding, the oscillations of the hammer body are picked up by two click levers and transferred to two click wheels. The two-way direction of rotation of the click wheels ensures an even rotary motion. This transfers the energy to the ratchet wheel in the mainspring barrel via the free wheel.

The watch can be wound by hand in addition to the self-winding mechanism. To achieve this, a manual winder designed as a yoke winder is mounted on a separate bridge. The yoke ensures that the manual winder is always uncoupled from the ratchet wheel when the HAMATIC system is active in response to motion. In manual winding mode, the reduction gear is isolated from the ratchet wheel by the click-pawl idler.

The HAMATIC also offers a stop-second function via the balance for ultra-precise time setting.

Limited to 25 watches worldwide

The HAMATIC Vintage in the white gold version with black 'black-or' dial and 'M. Grossmann' logo is limited to 25 watches worldwide.

White gold with 'black-or' dial version

Reference:	MG-002708
Case:	750/000 white gold
Dial:	Shiny 'black-or' with white Roman numerals
Hands:	Handcrafted, polished steel
Limited edition:	25 watches

Technical data

Movement	Manufactory calibre 106.0, automatic winding, regulated in five positions
No. of parts	312
Jewels	38, of which 3 in screwed gold chatons
Escapement	Lever escapement
Oscillator	Shock-resistant Grossmann balance with 4 inertia screws and 2 poising screws, Nivarox 1 balance spring
Balance	Diameter: 10.0 mm, frequency: 21,600 semi-oscillations/hour
Power reserve	72 hours when fully wound
Functions	Hour and minute, small second with stop seconds
Operating elements	Crown in 750/000 gold for winding the watch and setting the time
Case dimensions	Diameter: 41.0 mm, height: 11.35 mm
Movement dimensions	Diameter: 36.4 mm, height: 5.15 mm
Case	Three-part, in 750/000 gold
Dial	'black-or' shiny black, white Roman numerals
Hands	Manually crafted from steel, polished
Crystal/display back	Sapphire crystal, antireflective coating on one side
Strap	Hand-stitched alligator leather with prong buckle in 750/000 gold
Special features	Grossmann balance; click pawl in reduction gear; adjustment with Grossmann micrometer screw on cantilevered balance cock; pillar movement with 2/3 plate and pillars made of untreated German silver, hand-engraved 2/3 plate and cantilevered balance cock; wide, horizontal Glashütte ribbing, double-band snailing on the mainspring barrel; raised gold chatons

with pan-head screws; separately removable clutch winding mechanism; stop seconds for hand setting; automatic winding with oscillating hammer, bidirectional click wheels; idler with pawl clicks, manual yoke winder

Moritz Grossmann watches:

Moritz Grossmann, born in Dresden in 1826, was deemed a visionary among Germany's great horologists. In 1854, his friend Ferdinand Adolph Lange persuaded the young, highly talented watchmaker to establish his own mechanical workshop in Glashütte. Apart from building a respected watchmaking business, Grossmann was committed to political and social causes. He established the German School of Watchmaking in 1878. Moritz Grossmann passed away unexpectedly in 1885, after which his manufacture was liquidated.

The spirit of Moritz Grossmann's horological traditions sprang back to life in 2008 when trained watchmaker Christine Hutter discovered the venerable Glashütte brand and had it re-registered. She developed concepts and was inspired by the vision of reviving Grossmann's legacy more than 120 years later with a particularly exquisite wristwatch. And she convinced private watch enthusiasts to support her in making this dream come true. On 11 November 2008, she founded Grossmann Uhren GmbH in Glashütte.

At Grossmann, gifted watchmakers are preserving traditions without copying historic timepieces. With innovation, superb craftsmanship, a combination of traditional and contemporary manufacturing methods as well as precious materials, they celebrate 'Schönstes deutsches Handwerk' with their timepieces.

Information and image material for download:

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Grossmann Uhren GmbH:

www.grossmann-uhren.com

<https://www.grossmann-uhren.com/aktuelles/>

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Calibre 106.0