

NAUTISCHE INSTRUMENTE
MÜHLE
GLASHÜTTE/SA.

Wristwatches

2020 Collection

2020 Collection

NAUTISCHE INSTRUMENTE
MÜHLE
GLASHÜTTE/SA.

Dear friends of Mühle-Glashütte,
dear owners of a Mühle watch,
dear aficionados of mechanical time
measuring instruments,

I would like to take this opportunity to thank you for your interest in our time measuring instruments and our independent family company. Our company has a moving and eventful history with roots stretching right back to the year 1869. Back then, Robert Mühle first sparked the passion for precise measurement in our hearts. This initial spark has since become a constantly burning flame that we pass down our family from generation to generation, just like the Olympic flame. In fact, Mühle is now the only watch manufacturer in the German town of Glashütte to still be owned by a long-established local family.

I joined our family company back in the year 2000 and have been managing it since 2007. My son Dustin decided to continue the family tradition two years ago and I am delighted that he has decided to come on board. This gives us enough time to share the knowledge and values to which Mühle-Glashütte has been so committed over the past five generations.

After all, our tradition of precise measurement and our family and company history are what makes a timepiece a true Mühle watch. The character of our watches is mainly defined by their instrumental design, excellent functionality and practice-oriented approach. This is precisely why our catalogue not only contains an overview of our current collection but also an insight into the 130-year-long history of our wristwatches and the special movement technology that it has produced.

We hope that you will enjoy browsing through our catalogue!

A handwritten signature in black ink, appearing to read 'Thilo Mühle', with a stylized, flowing script.

Thilo Mühle



Our Instruments

Why our watches personify our values with every tick

Mühle watches are time measuring instruments. An instrument is defined by the fact that it offers a specific function and has to prove its worth in day-to-day use. This most definitely also applies to a Mühle watch, which doesn't want to be stuck in its case or even in a dark, cold safe for the rest of its life, but instead wants to and is able to be worn every day. Your Mühle watch feels most at home when sitting comfortably on your wrist and making the most of the positive influence that your body temperature has on its accuracy values. Mühle watches also love to always be on the move, especially out in the fresh air when you go hiking, cycling, camping, sailing ... the list goes on.

Every watch produced by Nautische Instrumente Mühle-Glashütte is robust enough to keep up with your active and athletic lifestyle, be it the elegant Teutonia or the sporty ProMare. The most extreme example of the high standards that characterise our time measuring instruments is without a doubt the S.A.R. Rescue-Timer. The captains of sea rescue crews have been wearing this watch for years and rely on its support as they save sailors in distress. When it comes to sea rescue missions, time is of the essence and every second counts. The crews have to be able to successfully battle through raging storms, crashing waves and thrashing rain. It is therefore essential that the S.A.R. Rescue-Timer meets the same high standards that apply to the other equipment used by the German Maritime Search and Rescue Service (DGzRS). It needs to provide precise time measurements that can be read at a glance and above all has to be robust enough to continue to do so in the harshest of storm-force winds.



Authentic

Why Mühle watches have nautical origins

We have been manufacturing wristwatches since 1996. Two years prior to this, Hans-Jürgen Mühle, the fourth generation of our family company, had started to produce marine chronometers and marine time systems. In fact, we still equip cruise ships with time systems that can contain more than 130 slave clocks in the present day.

A good year after we started our production activities, we received an enquiry from a shipyard, which wanted to know if we could also supply some robust water-resistant wristwatches for use on its ships. Our company history had already taught us that when it comes to precision engineering, nothing is impossible for the Mühle family. After all, we had already successfully manufactured high-precision measuring instruments, speedometers and car clocks. Hans-Jürgen Mühle therefore quickly responded to the shipyard's enquiry: of course we can!



This response signalled the start of Mühle-Glashütte's wristwatch production activities and is precisely why these time measuring instruments are also sold under the label of "Nautische Instrumente Mühle-Glashütte". The company's nautical values were therefore incorporated into the watches' DNA, so to speak, right from the word go. Given this background, it comes as no surprise that the first two Mühle wristwatches available to purchase were its "Herren-Sporttaucher-Uhr" men's sport diving watch and "Marinefliegeruhr-I" marine pilots' watch. The first ever wristwatch to be produced by our company, however, had no name. The predecessor to the men's sport diving watch was simply part of the equipment used on ships – a time measuring instrument designed to perform a task.

Nautical virtues

Why we make such excellent watches

Before we got down to the business of producing our first wristwatches, we first considered what makes our marine chronometers and marine time systems so special. When out at sea, it all comes down to three nautical values: precision, reliability and perfect readability. The main priority, however, is ensuring that precision always goes hand in hand with the essential factor of reliability. When creating our timepieces for the wrist, we paid

close attention to meeting the demands involved in the world of professional shipping. We therefore now produce wristwatches that are strongly committed to these three nautical virtues and to the traditions of our Mühle family.

There are a wide variety of ways in which watches can be operated: Battery-operated movements, for example, are controlled by the vibrations of a quartz crystal. They are extremely precise and we use them in our marine chronometers and many of our marine time systems.

In our wristwatches, on the other hand, we use mechanical movements, which are extremely fascinating due to their multitude of delicate individual parts. These movements require no battery power or electricity whatsoever and therefore render faithful service to their wearers wherever they are and whenever they need them. Although a mechanical movement will never be able to provide the same level of precision as a quartz movement, we do everything we can to achieve the best results possible when it comes to accuracy.

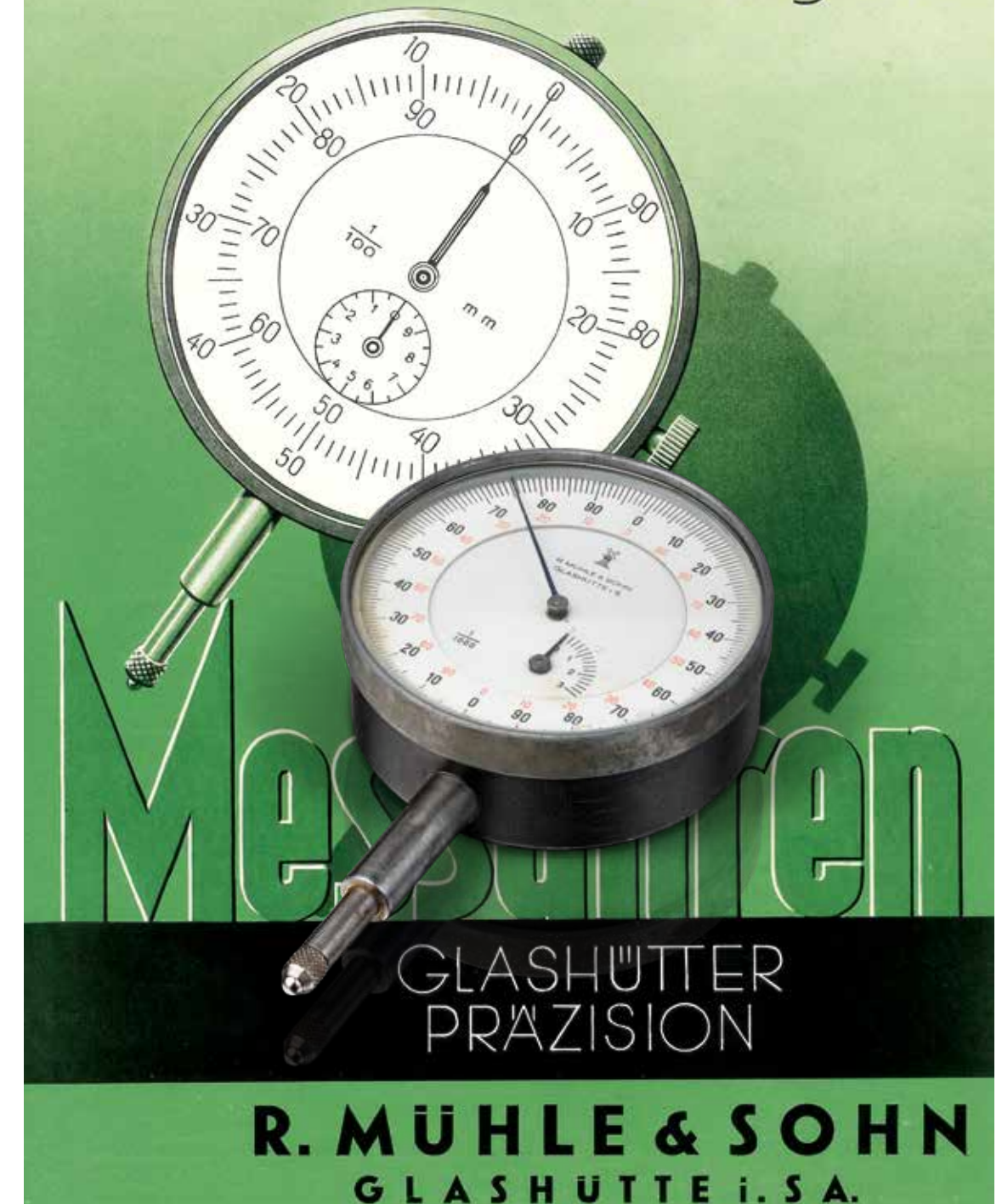


Why we are committed to our family tradition

Over the years, Mühle's passion for precise measurement became a true family tradition and played a monumental role when the fourth generation of the family introduced the focus that still defines our company in the present day.



Messgeräte



Glashütte

Why our roots stretch deep into our home town

Our family has now been working in the watchmaking industry of the German town of Glashütte over a total of five generations without interruption. The founding of the town's first watchmaking company back in 1845 represented a significant opportunity for our family and many other individuals from the local region. After all, when mining activities came to a standstill, the people of Glashütte had to revert to farming and agriculture, which didn't exactly go hand in hand with prosperity.

Our family stayed in the region through both the good times and the bad, following in the footsteps of the first Mühles to settle in the area over 700 years ago. Our roots here were made even stronger by the fact that one of our forefathers was even made a baron. As a result, we have had a family crest since 1629, the most important element of which is our family ethos: "without hope, without fear". This means that we are down-to-earth realists who tackle even the toughest of problems in a courageous manner.

This is also precisely why we have never left Glashütte, even standing our ground when our company founded in 1869 was forced to face the threats of world wars, socialism and expropriation. We can therefore now proudly declare that the name "Mühle" has stood for precision and precise measurement in Glashütte for five generations.



Understatement

Why we focus on precision ahead of appearance

We're not the kind of company that likes to talk a lot and embellish our products with luxurious and extravagant extras. Instead, we have been fully focusing on our passion of precise measurement for 150 years. In line with this focus, we are committed to producing precise instruments and this is what defines us. A true "time measuring instrument" should attract people's attention with its precision, high-quality workmanship and excellent readability – in our humble opinion. When it comes to our watches, we're not fans of overloaded faces and bezels packed full of embellishments. Our understanding of beauty is quite the opposite: functional technical design combined with timelessly classic elements.

This is why we prefer to manufacture down-to-earth time measuring instruments that enable their wearers to clearly read the time at a glance – with no superfluous embellishments or showy ornaments whatsoever. Our Mühle watches made an impact solely thanks to their straightforward design and distinctively masculine appearance. To put it simply in modern terms, we're all about understatement. We aim to offer more than meets the eye, putting substance ahead of appearance. So without further ado, it's time to introduce you to our watches...



Table of Contents and Legend of Symbols

Thilo Mühle zum Katalog	1
Instrumente – Warum SIE ticken, wie WIR ticken	4-5
Authentisch – Warum Mühle-Uhren nautischen Ursprungs sind	6
Nautische Tugenden – Warum wir so gute Uhren bauen	7
Familienbetrieb – Warum wir unserer Familientradition verpflichtet sind	8-9
Glashütte – Warum wir tief in unserer Heimat verwurzelt sind	10
Understatement – Warum wir das präzise Sein dem schönen Schein vorziehen	11
ProMare	14-17
ProMare Datum	18-19
ProMare Lady	20-21
ProMare Go	22-23
S.A.R. Einsatzuhren	24-25
Zusammenarbeit mit den Seenotrettern	26-27
S.A.R. Rescue-Timer	28-29
S.A.R. Flieger-Chronograph	30-31
Sea-Timer BlackMotion	32-33
Seebataillon GMT	36-39
29er	40-41
29er Casual	42-43
29er Tag/Datum	46-47
29er Chronograph	48-49
29er Zeigerdatum	50-51
29er Big	52-53
29er	54-55
Lunova	56-59
Lunova Datum	60-61
Lunova Chronograph	62-63
Lunova Tag/Datum	64-65
Lunova Lady	66-67
Die Teutonia	68-71
Teutonia Sport I	72-73
Teutonia Sport I „Clous de Paris“	74-75
Teutonia Sport II	76-77
Teutonia IV Mondphase	80-81
Teutonia II Weltzeit	82-83

Teutonia II Chronograph	84-85
Teutonia II Tag/Datum	86-87
Teutonia II Kleine Sekunde	88-89
Teutonia II Chronometer	90-91
Teutonia II Medium	92-93
Panova	94-95
Panova Blau	96-97
Panova Grau	98-99
Panova Grün	100-101
M 29 Classic	102-107
Terrasport	108-111
Terrasport I Chronograph	112-113
Terrasport IV BRONZE	114-115
Terrasport I Beobachter	116-117
Terrasport IV GMT	118-119
Terrasport I	120-121
Terrasport II	122-123
Terrasport III	124-125
Firmen- und Familiengeschichte	126-129
Erste Generation: Robert Mühle	130-131
Zweite Generation: Paul, Max und Alfred Mühle	132
Dritte Generation: Hans Mühle	133
Vierte Generation: Hans-Jürgen Mühle	134-135
Fünfte Generation: Thilo Mühle	136-137
Sechste Generation: Dustin Mühle	138-139
Mühle-Technologie	140-143
Patentierte Spechthalsregulierung	146-147
Charakteristischer Mühle-Rotor	148-149
Mühle Dreiviertelplatine	150-151
Die Uhrwerke von Mühle-Glashütte	154-155
Impressum	156

New

New product



Hand-wound movement



Textile strap/mixed strap

44,0

Diameter

30 bar

Water resistance



Leather strap



Automatic movement



Luminous areas



Metal strap



Rubber strap



ProMare

A nautically inspired watch to put the wind in your sails

This robust sports watch is ideal for all kinds of outdoor and water activities, from sailing through to kite buggying and right through to water skiing. This active nautical focus inspired the name of the new Mühle watch, a combination of the Latin terms "pro" and "mare", which fittingly translate to "for the sea".



ProMare Datum

Stay up to date at a glance

The ProMare Datum offers excellent readability with a capital R. This not only applies to the fact that it allows users to quickly read the time, but also that it boasts a simple date display. The date display of the ProMare Datum is a good 30 percent larger than that of comparable watches and therefore deserves the honour of being the watch's namesake in the form of the German word "Datum", meaning "date".



Movement: SW 400-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hour power reserve.

Case: Brushed/polished stainless steel. Domed and double anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 44.0 mm; H 12.0 mm. Water-resistant to 30 bars. Leather/rubber strap with a stainless steel pin buckle or stainless steel strap with a stainless steel folding clasp.

Dial: Black. Applied indices. Hands and hour markers coated in Super LumiNova.

ProMare Lady

Nautical by nature



"Nautical by nature" is the motto of the ProMare Lady. This attractive women's watch not only stands out due to our nautical values of precision, reliability and excellent readability, but is even produced using elements of the sea. The stunning mother of pearl that adorns its face, for example, is a purely natural product formed by molluscs such as pearl oysters.



M1-42-25-MB



- Four diamonds with a diameter of 1.3 millimetres replace the indices in the 3, 6, 9 and 12 o'clock positions.
- Two additional diamonds with a diameter of 1.1 millimetres are used to form the orientation triangle at 12 o'clock.

Movement:	SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hour power reserve.
Case:	Brushed/polished stainless steel. Domed and double anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 39.0 mm; H 10.6 mm. Water-resistant to 30 bars. Leather/rubber strap with a stainless steel pin buckle or stainless steel strap with a stainless steel folding clasp.
Dial:	White (mother of pearl). Applied indices or diamonds at the 3, 6, 9 and 12 o'clock positions. Hour indices and hands coated in Super LumiNova.

ProMare Go

Ready, steady, go!



Whatever your active plans for the weekend, be it taking your sailing boat out onto the water or setting out on your bike to venture to the nearby mountain peaks, the ProMare Go is the ideal timepiece for people who take a particularly ambitious approach towards tackling sporting challenges. The sports watch helps its wearers to fulfil these athletic ambitions by providing them with a practical extra: a bidirectional bezel that enables them to quickly and easily mark the start of their sailing trip, mountain hike or cycling tour.



M1-42-32-NB



Movement: SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hr power reserve.

Case: Brushed/polished stainless steel. Bidirectional bezel. 2.5mm-thick domed and anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.0 mm; H 12.2 mm. Water-resistant to 30 bars. Leather/rubber strap with a stainless steel pin buckle.

Dial: Blue. Applied indices. Hands and hour markers coated in Super LumiNova.



S.A.R. watches for nautical use

Tried and tested in difficult rescue missions on a day-to-day basis

Mühle watches are renowned for their nautical values, namely maximum precision, outstanding reliability and excellent readability. Our S.A.R. models in particular prove their worth as reliable companions on a daily basis, for example as the wristwatches of choice on the rescue cruisers of the German Maritime Search and Rescue Service (DGzRS) since February 2002.

Our Cooperation with the Maritime Rescue Workers

The story of the S.A.R. Rescue-Timer

The German Maritime Search and Rescue Service (DGzRS) has been keeping sailors safe on the North Sea and Baltic Sea for more than 150 years. Its maritime rescue teams are responsible for tackling important and often dangerous missions that help to save multitudes of lives. Even since it was first founded, the DGzRS, which is financed solely by donations, has saved nearly 85,000 sailors in distress.

The founding of the service was preceded by several severe shipwrecks on the North Sea Coast, after which there were calls for German search and rescue activities to be placed under the umbrella of one organisation. This initially led to the establishment of regional search and rescue associations, which came together to form the German Maritime Search and Rescue Service in the German city of Kiel on 29th May 1865. When Robert Mühle founded our family company in Glashütte, the DGzRS had already existed for several years.



www.seenotretter.de

The sea rescue crews and Mühle-Glashütte have shared a common tradition since February 2002, the year in which the first S.A.R. Rescue Timers were handed over to the leading rescuers of the DGzRS. The watch was developed in cooperation with the sea rescuers and is geared to the harsh conditions at sea. The S.A.R. Rescue-Timer is therefore an essential time measuring instrument for the crews on their rescue missions. When out at night, the crews often turn off the lighting and even the instruments in their rescue boats in order to achieve better visibility of the sea. The fact that the S.A.R. Rescue-Timer also



offers excellent readability at night means that the rescue teams can still keep a precise record of timings for mission reports in such conditions. As a watch brand with a nautical background, Mühle-Glashütte was the ideal partner for a cooperation with the maritime rescue workers, whose missions often take them out into rough waters. Although their rescue cruisers have always been highly seaworthy, the rescuers' own personal watches were often damaged on rescue missions. In March 2001, we contacted the maritime rescue teams and proposed the development of a user-based watch that could master the tough conditions involved in their work.

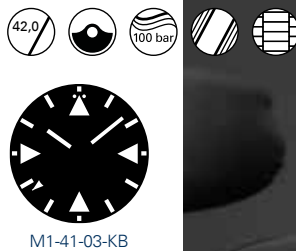


S.A.R. Rescue-Timer

Built to withstand even the toughest of conditions



When developing our watches, we not only rely on our own expertise but also factor in other influences and even actively seek them out. The captains of the rescue fleet of the German Maritime Search and Rescue Service (DGzRS) were therefore significantly involved in the development of the function and design of the S.A.R. Rescue-Timer. These captains control the service's rescue cruisers and answer their call of duty to save sailors in distress in all kinds of weather. This practice-oriented approach enabled us to create an extremely robust watch that is able to master every challenge. The time measuring instrument is not only built to withstand powerful water pressure but also boasts another impressive highlight in the form of its four-millimetre-thick sapphire crystal. In combination with our particularly shockproof fine regulation, this strong material makes the S.A.R. Rescue-Timer a truly unshakeable timepiece.



M1-41-03-KB



- Extremely robust: the 4-millimetre thick anti-glare sapphire crystal of the S.A.R. Rescue-Timer compared to standard sapphire crystal.
- Perfect readability, complete reliability: The magnifier that enlarges the date is located under the crystal.



Movement: SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hour power reserve.

Case: Stainless steel with a rubber bezel. 4mm-thick anti-glare sapphire crystal with a reverse magnifier under the crystal. Screw-in crown. Ø 42.0 mm; H 13.5 mm. Water-resistant to 100 bars. Rubber or stainless steel strap with a stainless steel folding clasp and an extension. Screwed strap attachment bridges.

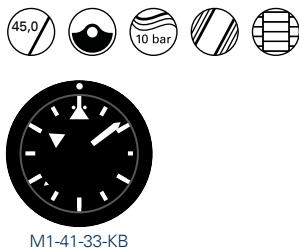
Dial: Black. Hands and indices coated in Super LumiNova, strongly luminous.

S.A.R. Flieger-Chronograph

A back-up instrument for rescue pilots



Saving sailors in distress is a mission that requires a strong and reliable team. The sea rescue crews of the German Maritime Search and Rescue Service (DGzRS) and the rescue pilots of the German Navy therefore work together on a regular basis. The pilots support the sea rescue crews by deploying their Sea King helicopters. Creating a watch for the search and rescue pilots to accompany the S.A.R. Rescue-Timer worn by the crews at sea was therefore a logical step to take. The idea behind the development of this watch was based on the requirements of the Sea King helicopter crews. After all, although their helicopters are fitted with state-of-the-art technology, the watch on their wrists is what determines the time measurements that are essential for their navigation. The rescue pilots therefore required a chronograph watch that not only enables them to calculate air speeds but is also built to withstand even the toughest of conditions. The S.A.R. Flieger-Chronograph was our answer to these demands.



M1-41-33-KB



- Movement: MU 9413, automatic with a woodpecker neck regulation, Glashütte three-quarter plate, own rotor and characteristic Mühle surface finishes. Stop-second. Fast date correction. 48-hour power reserve.
- Case: Stainless steel with a bidirectional bezel. 2.5 mm thick, domed and anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 45.0 mm; H 16.2 mm. Water-resistant to 10 bars. Rubber or stainless steel strap with a stainless steel folding clasp and an extension. Screwed strap attachment bridges.
- Dial: Black. Hands and indices coated in Super LumiNova.



Sea-Timer BlackMotion

For people who are always on the move

Be it on, in or by the water. When sport represents fun with a capital F, the Sea-Timer BlackMotion is totally in its element. This robust sports watch is the ideal companion for anyone who loves to be outdoors and always on the move.

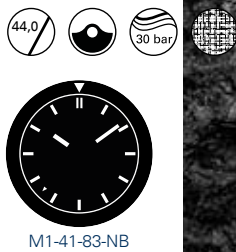
Sea-Timer BlackMotion

No sports, no fun

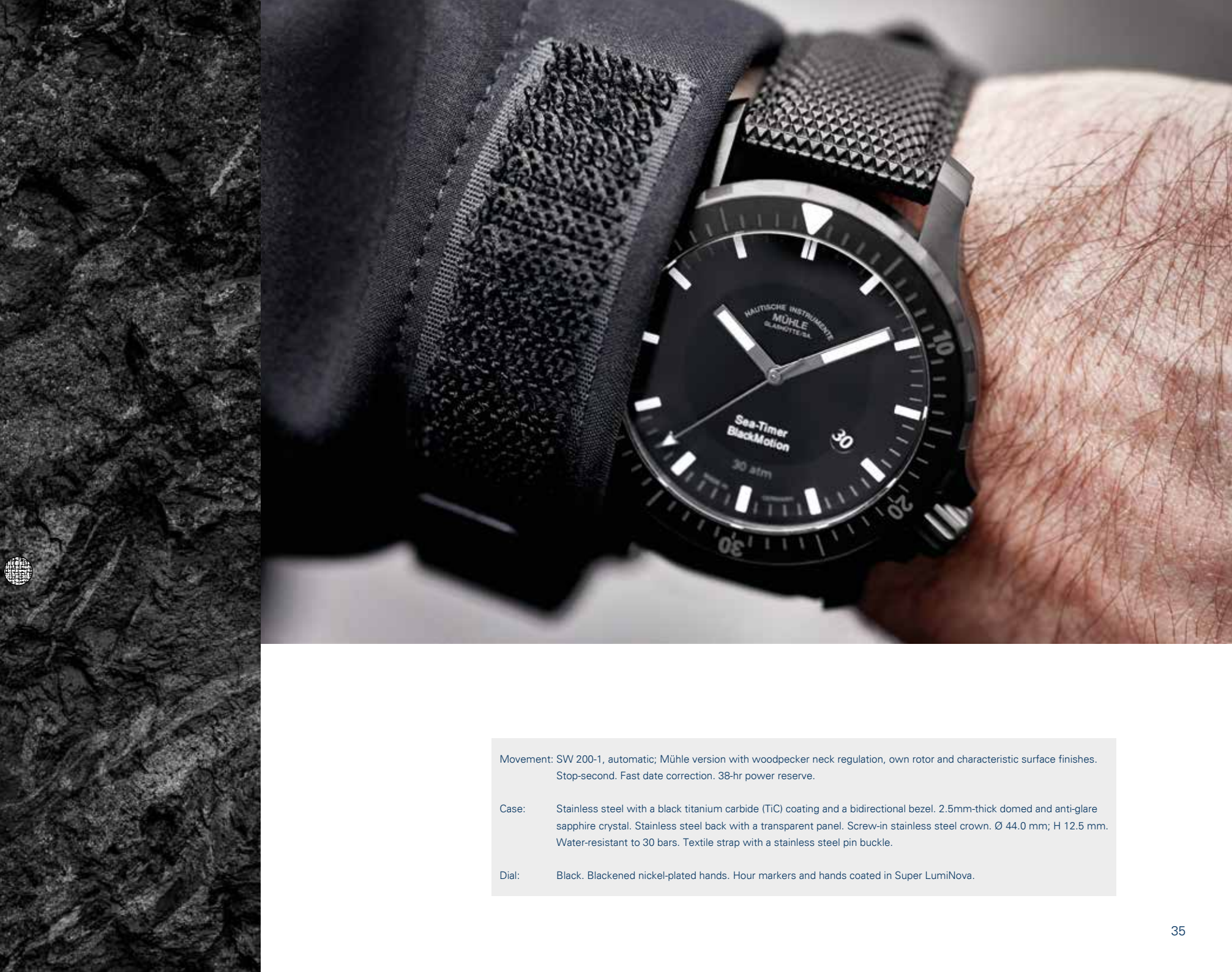


Do you only buy sun lotion in extra-large bottles, barely even notice if you get salt water in your eyes and simply grab a jetboard when the wind isn't on your side? If so, there's no doubt about it: you're a perfect match for the Sea-Timer BlackMotion!

This new Mühle sports watch is an absolute must for anyone who is always on the move and simply can't wait to try out new fun sports activities. Its black TiC-coated stainless case reveals at a glance that the Sea-Timer BlackMotion is the ideal companion for all sports adventures. The high-quality case not only features a 2.5-millimetre-thick anti-glare sapphire crystal but also boasts a solid screw-in crown with extra side protection.



M1-41-83-NB



Movement:	SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hr power reserve.
Case:	Stainless steel with a black titanium carbide (TiC) coating and a bidirectional bezel. 2.5mm-thick domed and anti-glare sapphire crystal. Stainless steel back with a transparent panel. Screw-in stainless steel crown. Ø 44.0 mm; H 12.5 mm. Water-resistant to 30 bars. Textile strap with a stainless steel pin buckle.
Dial:	Black. Blackened nickel-plated hands. Hour markers and hands coated in Super LumiNova.



Seebataillon GMT

For the German Navy Sea Battalion

For the German Navy Sea Battalion we have developed a special tactical watch with a useful GMT function. This model recognises the frequent deployments of the Sea Battalion outside of Germany as it works to protect the soldiers, ships and premises of the German Navy in harbours and on the high seas. The organisation is also responsible for protecting merchant ships against pirates and carrying out embargo checks. In order to carry out these activities, the Sea Battalion boasts excellently trained units including boarding teams and marksmen.

Seebataillon GMT

Sophistication down
the finest detail

Our S.A.R. models have established an excellent reputation as particularly resistant time measuring instruments, so much so that they enabled Mühle-Glashütte to attract the attention of the "Seebataillon" naval force protection battalion of the German Navy. We responded to this attention by developing a special tactical watch with a useful GMT function for the soldiers in this special unit. This new model recognises the frequent deployments of the Seebataillon outside of Germany. In order to provide its loyal service to soldiers both in Germany and on the coast of Africa or in the Middle East, this watch not only has to be reliable, self-sufficient and precise but also particularly easy to read. Its face therefore features double indices at the 3, 6 and 9 o'clock positions and a split triangular marking at the 12 o'clock position. This not only enables the best possible use of a luminous material coating, but also precisely defines the position of the hand at the full minute mark. The reduced countdown bezel also contributes towards the watch's excellent readability, as does its skeletonised GMT hand, which does not obscure the minute graduation.



M1-28-62-KB

to



The Seebataillon protects the soldiers, ships and buildings of the German Navy in port or at sea. It is also responsible for protecting merchant ships against pirates and carrying out embargo checks. In order to fulfil its duties, the Seebataillon boasts excellently trained units including boarding teams and marksmen, explosive ordnance disposal forces and mine clearance divers or field intelligence soldiers.

Movement: SW 330-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Second time zone / 24-hour display. Stop-second. Fast date correction. 42-hour power reserve.

Case: Titanium with a bidirectional bezel. 2.5mm-thick domed and anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 45.0 mm; H 12.7 mm. Water-resistant to 30 bars. Rubber strap with a folding clasp and an extension. Screwed strap attachment bridges.

Dial: Blue. Hands and hour indices coated in Super LumiNova.



29er

A watch inspired by a sailing skiff

Believe it or not, Nautische Instrumente Mühle-Glashütte started out as a manufacturer of marine chronometers and marine time systems. This is why many of our Mühle wristwatches have a nautical origin. The 29er got its name from a small sailing skiff used by young sailing talents in their competitions in the Junior Championship Class run by the German Sailing Association (DSV).

29er Casual

The Ideal Companion in All Kinds of Waters



The 29er watch models manufactured by Nautische Instrumente Mühle-Glashütte got their name from a small sailing dinghy used by young sailing talents in their Junior Championship Class competitions run by the German Sailing Association (DSV). This little regatta skiff is not only able to speed through the seas but also very easy to sail in all kinds of waters. Additional draft is only provided by the stabilising centreboard in the hull, which requires water to be sufficiently deep. In the case of the dinghy's wristwatch counterpart, Mühle-Glashütte has now significantly reduced the depth of the 29er: with a height of just 9.35 millimetres and a diameter of 42.4 millimetres, the stainless-steel case of the 29er Casual is the flattest case in the current Mühle collection. Just like its namesake, it therefore feels at home in all waters and what's more, it also cuts a fine figure on dry land, for example when teamed with a sporty slim-fit suit jacket.

New

42.4

M1-25-72-NB

Find out more about the Panova watches at www.muehle-glashuette.de.



Movement:	SW 300-1, automatic; Mühle version with patented woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 42-hr power reserve.
Case:	Brushed/polished stainless steel. Anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.4 mm; H 9.35 mm. Water-resistant to 10 bars. Textile or leather strap with a stainless steel pin buckle.
Dial:	Navy blue. Applied indices. Hour markers and hands coated in Super LumiNova.

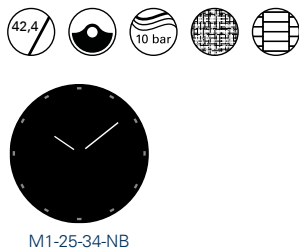


29er Tag/Datum

The perfect balance



Be it when sailing the 29er dinghy or creating its wristwatch counterpart, the 29er Tag/Datum, it's all about achieving the perfect balance. When the wind tugs at the sail at full force and crew members have to throw their entire weight into leaning out on the trapeze, the right balance is the deciding factor between winning or sinking. When designing the 29er Tag/Datum, achieving a harmonious balance between the date and weekday displays was just as critical for our watch-making crew, albeit on dry land.



Movement: SW 220-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date and weekday correction. 38-hr power reserve.

Case: Brushed/polished stainless steel. Anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.4 mm; H 11.3 mm. Water-resistant to 10 bars. Textile strap with a stainless steel pin buckle or a stainless steel strap with a stainless steel folding clasp.

Dial: Titanium grey with a metallic sand-coloured flange. Applied indices. Hour markers and hands coated in Super LumiNova.

29er Chronograph

Sporty, dynamic and precise



Believe it or not, Nautische Instrumente Mühle-Glashütte started out as a manufacturer of marine time systems and marine chronometers. This is why many of our wristwatches have nautical properties, for example our 29er models. The 29er gets its name from a small sailing dinghy used by young sailing talents in their competitions in the Junior Championship Class (run by the German Sailing Association (DSV)). The 29er skiff boasts the reputation of being particularly quick, sporty and dynamic and is therefore the ideal namesake for our 29er watches. The only difference is that we use our intricate regulation to remove all excess speed and instead provide precise time measurement. The 29er Chronograph is a prime example of such accuracy. Its timer function is a particularly special and useful highlight for athletes in competitions and not only proves its worth in sailing events but also in horse races, motor races and the good old 5000-metre run. The stopwatch hand of the chronograph watch is red: a colour that gives it a sporty look and above all ensures that the stopped number of seconds is particularly easy to read.



M1-25-43-NB



Movement: MU 9413, automatic with a woodpecker neck regulation, Glashütte three-quarter plate, own rotor and characteristic Mühle surface finishes. Stop-second. Fast date correction. 48-hour power reserve.

Case: Brushed/polished stainless steel. Anti-glare sapphire crystal. Transparent case back. Screw-in crown. Water-resistant to 10 bars. Ø 42.4 mm; H 14.2 mm. Stainless steel strap with a butterfly clasp, leather/rubber strap with a stainless steel pin buckle or leather strap with a stainless steel pin buckle.

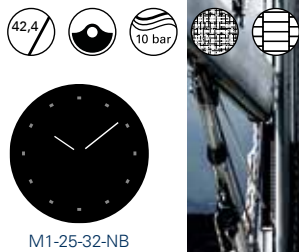
Dial: Black or white. Applied indices. Hour markers and hands coated in Super LumiNova.

29er Zeigerdatum

Sail the seas every day with this time measuring instrument



This timepiece makes every day feel like a day at sea. The moment you first look at the 29er Zeigerdatum, you are sure to be impressed by its typical nautical colours and when you look again, its somewhat unusual date display will grab your attention. The date is shown by a white hand, the tip of which contains a blue crescent that frames the current day on the date scale on the blue-grey flange.



M1-25-32-NB



Movement: SW 221-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Hand date with fast correction. 38-hour power reserve.

Case: Brushed/polished stainless steel. Anti-glare sapphire crystal. Transparent case back. Screw-in crown. Water-resistant to 10 bars. Ø 42.4 mm; H 12.2 mm. Stainless steel strap with a stainless steel butterfly clasp or textile strap with a stainless steel pin buckle.

Dial: White with a blue flange. Applied indices. Hour markers and hands coated in Super LumiNova.

29er Big

Small yawl. Big name.

As a yawl, the 29er is a one-design boat. That means that all boats have more or less the same design – from the sail to the hull. The same applies to the 29er wristwatches. Despite different case diameters, the 29er and the 29er Big resemble each other like identical twins. And not only as far as their design is concerned – but also in terms of precision.



M1-25-31-LB



Movement: SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date and weekday correction. 38-hr power reserve.

Case: Brushed/polished stainless steel. Anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.4 mm; H 11.3 mm. Water-resistant to 10 bars. Stainless steel strap with a butterfly clasp, leather/rubber strap with a stainless steel pin buckle or leather strap with a stainless steel pin buckle.

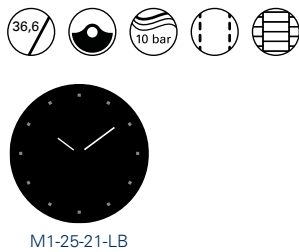
Dial: Black or white. Applied indices. Hour markers and hands coated in Super LumiNova.

29er

Glashütte for beginners



The 29er skiff is the little brother of the 49er dinghy. It is designed to be used to train young sailing talents so that they can go on to sail in the larger 49er Olympic boat class. Our 29er serves a similar purpose: The model was developed in 2006 in order to provide friends of mechanical time measuring instruments with an easy introduction to the world of Glashütte watches. It has certainly met this objective thanks to high-quality cases that are water-resistant to 10 bars, precise movements and a classic sporty design, all of which enable our 29er watches to capture the hearts of a multitude of watch lovers year after year.



Movement: SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date and weekday correction. 38-hr power reserve.

Case: Brushed/polished stainless steel. Anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 36.6 mm; H 10.4 mm. Water-resistant to 10 bars. Stainless steel strap with a butterfly clasp or leather strap with a stainless steel pin buckle.

Dial: Black or white. Applied indices. Hour markers and hands coated in Super LumiNova.



Lunova

Glashütte's shining star

The Lunova comes with a particularly elegant case design like nothing Mühle-Glashütte has ever seen before. The character of the watch is defined by its finely polished surfaces, which result in the shiny appearance that inspired the name of the timepiece. The first part of the name Lunova is inspired by the Latin word "lumen", meaning shine, light or bright. The second part comes from the Latin word "novus", which can be translated as new, young or fresh.

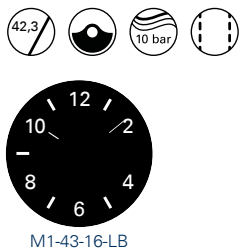


Lunova Datum

A festive shine



Only in truly urban environments can jazz meet hip-hop and classical music, streetwear and designer suits stand side by side on the underground, art and business go hand in hand and life reach new levels of vibrancy. This wild combination of metropolitan opportunities is the ideal setting for the Lunova models with a new and unique Mühle-Glashütte design that is particularly elegant thanks to its unusually large number of surfaces with a polished finish. This shiny appearance also acted as the inspiration behind the name of this new family of watches. It is inspired by the Latin words „lumen“, meaning shine, light or bright and „novus“, which can be translated as new, fresh or young. The Lunova Datum model is able to truly shine in new splendour thanks to its fully polished case.



• Excellent readability: the date display of the Lunova Datum is a good 30 percent larger than that of comparable watches.



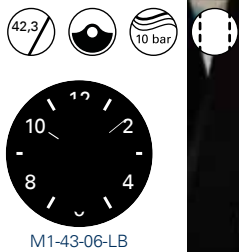
- Movement: SW 400-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hour power reserve.
- Case: Polished stainless steel. Double anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.3 mm; H 10.7 mm. Water-resistant to 10 bars. Crocodile leather strap with stainless steel pin buckle.
- Dial: Black. Applied indices. Hands and hour markers coated in Super LumiNova..

Lunova Chronograph

Shine with creativity



Creativity is in the air! When creative minds come together to discuss the latest designs for a brand-new conference centre at an architect's office, the sporty yet elegant Lunova Chronograph takes centre stage. The designs need to be submitted to the customer by Friday. While its wearers bring their creativity and motivation to the forefront, their trusty companion, namely the Mühle watch on their wrist, uses its weekday display to remind them at a glance that they still have three whole days to make changes and corrections.



- Movement: MU 9413, automatic with woodpecker neck regulation, Glashütte three-quarter plate and characteristic Mühle surface finishes. Second-stop. Fast date and weekday correction. 48-hr power reserve.
- Case: Brushed/polished stainless steel. Double anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.3 mm; H 14.2 mm. Water-resistant to 10 bars. Crocodile leather strap with stainless steel pin buckle.
- Dial: Black. Applied indices. Hands and hour markers coated in Super LumiNova.

Lunova Tag/Datum

Attractiveness at its best



As a stressful working week comes to an end, the weekday display of your Lunova finally confirms that it's „Friday“, while your smartphone happily reminds you that it will soon be time to head to the jazz bar downtown for an evening of music at 8pm. Just a few hours later, you're sitting at the jam-packed jazz bar. While the man at the piano impresses the crowd with his improvisations, you realise that another highlight is also attracting the admiration of your fellow guests: the Lunova Tag/Datum sitting particularly comfortable on your wrist, because of its light titanium case.



• A unique shine: the Lunova Tag/Datum is impressive proof that even a functional titanium case can shine with finely polished surfaces.



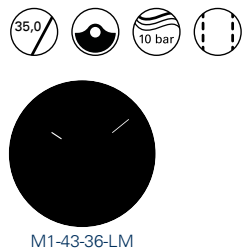
Movement:	SW 220-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date and weekday correction. 38-hr power reserve.
Case:	brushed/polished titanium. Double, anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.3 mm; H 11.0 mm. Water-resistant to 10 bars. Crocodile leather strap with titanium pin buckle.
Dial:	Black. Applied indices. Hands and hour markers coated in Super LumiNova.

Lunova Lady

Grey is the new black



It's hard to believe but the "little black dress" is such an institution that it is even a subject of study for scientists and professors! The LBD is an absolute must for every wardrobe. Why? Because it is restrained in terms of both colour and design, thus shining the spotlight on its wearer and her natural radiance. It was also the inspiration behind and aim of our 'LGW', the little grey watch. Our Lunova Lady deliberately avoids bright and bold colours and instead features a polished stainless steel case and subtle face in slate grey that helps its wearers to truly shine with confidence and style.



M1-43-36-LM



Movement:	SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hr power reserve.
Case:	Polished stainless steel. Double anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 35.0 mm; H 9.6 mm. Water-resistant to 10 bars. Leather strap with a stainless steel pin buckle.
Dial:	Slate grey. Applied numerals and hour indices. Glossy nickel-plated hour markers and hands. Hands coated in Super LumiNova.



Teutonia

Our symbol of functional luxury

This sporty yet elegant business watch is the timeless classic of the Mühle collection. The first Teutonia, which was launched in 2002, was designed with a silver face that has remained its characteristic feature right up to the present day. Its elegant guilloché finish is not only a luxurious decoration but also subdivides the face and gives it a particularly clear layout.

The Teutonia

A masterstroke for Mühle-Glashütte

The management of our family company has now been passed down from father to son over five generations. In line with this tradition, Thilo Mühle joined the family company re-established by his father Hans-Jürgen Mühle in the year 2000, when he initially took on responsibility for the product development of wristwatches.

The Teutonia is the first watch to be designed by Thilo Mühle. It was launched in 2002 and not only features a silver face with a guilloché finish, which has remained its characteristic feature right up to the present day, but also a large date display. Over the years that followed, this legendary model formed the basis for the development of an entire family tree of watches with a wide variety of branches.



It was initially joined by the Teutonia II Chronograph, Chronometer and Medium in 2005. The model featuring the large date, which had originally been given the short and simple name "Teutonia", was then renamed the Teutonia II Großdatum. Further models then went on to join the family, for example the Teutonia II Kleine Sekunde in 2009 and a model with a weekday display in 2013.

Nowadays, the Teutonia II is not only a timeless classic in the Mühle collection, but also the manufacturing workshop's most successful range of watches and, so to speak, the jewel in its crown.



Teutonia Sport I

A Need for Speed



Be it roaring down the Nürburgring race track or speeding down the slopes in the Swiss Alps, the Teutonia Sport I doesn't just thrive on measuring the time it takes to cover a certain distance, but also loves to reveal speed measurements at a glance too. This special feature of the sport chronograph from the German town of Glashütte is all thanks to its clever tachymeter function, which makes the Teutonia Sport I the ideal companion when it comes to recording both time and speed. The red scale on the flange of the watch enables you to read your speed over a distance of 1000 metres at a glance.



Movement:	MU 9413, automatic with woodpecker neck regulation, Glashütte three-quarter plate and characteristic surface finishes. Stop-second. Fast date correction. 48-hr power reserve.
Case:	Brushed/polished stainless steel with bidirectional bezel. Domed and double anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.6 mm; H 15.5 mm. Water-resistant to 10 bars. Waterproof leather/rubber strap with a stainless steel pin buckle. Screwed strap attachment bridges.
Dial:	Black. Applied indices. Hands and hour markers coated in Super LumiNova.

Teutonia Sport I

Truly a living legend

The red and black design of the original Teutonia Sport gave it a very Italian feel. The new Teutonia Sport I, on the other hand, puts us back on German soil, or better said racetracks, with what could easily be mistaken for a true Silver Arrow on our wrist. With its sleek silver design, you can't help but remember the historic Grand Prix racing cars of the Saxon Auto Union racing around the track. In fact, with Horch, DKW and Wanderer, R. Mühle & Sohn once supplied three of the four brands in the group with its equally legendary Glashütte Mühle speedometers, as well as car clocks and rev counters.

This new Mühle chronograph watch appeals to both car lovers and watch connoisseurs, especially due to the automotive design of its highly functional face. The main highlight of its design is the face's bi-compax layout, which features a small-second display at the 9 o'clock position and a 30-minute counter next to 3 o'clock. Just like the speedometer and rev counter in its four-wheeled counterpart, the timepiece's totalisers are perfectly incorporated into its stylish face with stunning "Clous de Paris" embossing. The fact that the borders of these totalisers slightly slope down towards the centre of the dials adds to the watch's automotive look.



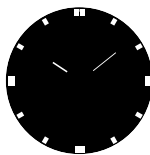
Movement:	MU 9419, automatic with patented woodpecker neck regulation, Glashütte three-quarter plate, blue anodised anniversary rotor and characteristic Mühle surface finishes. Stop-second. Fast date correction. 48-hr power reserve.
Case:	Brushed/polished stainless steel with a bidirectional bezel. Domed and double anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.6 mm; H 15.5 mm. Water-resistant to 10 bars. Leather strap with a stainless steel pin buckle. Screwed strap attachment bridges.
Dial:	Silver with "Clous de Paris" embossing. Applied indices. Hour indices and hands CVD-coated and with a layer of Super LumiNova.

Teutonia Sport II

The "Bella Macchina"
from Glashütte



As everyone knows, an Alfa must be a thing of beauty, a Maserati needs to exude elegance and a Ferrari has to be red. The Teutonia Sport II combines all of these stunning attributes and is living proof that a functional time measuring instrument „made in Germany“ can also boast the fire and passion of truly legendary sports cars.



M1-29-73-NB

- Movement: SW 290-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hr power reserve.
- Case: Brushed/polished stainless steel. Domed and double anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 41.6 mm; H 12.8 mm. Water-resistant to 10 bars. Waterproof leather/rubber strap with a stainless steel pin buckle. Screwed strap attachment bridges.
- Dial: Black. Applied indices. Hands and hour markers coated in Super LumiNova.



Teutonia IV Mondphase

In the light of the Moon



Believe it or not, 50 years have now passed since man first landed on the Moon. Nevertheless, there's still plenty of fascinating news in the present day for fans of all things lunar, especially those who enjoy being different. Did you know, for example, that the Moon has moved a distance of nearly two metres away from the Earth over the past 50 years and will completely leave its orbit at some point in the future? Or that Mühle-Glashütte has now launched a brand-new Teutonia model that captures the Moon for eternity in a special window above the 6 o'clock marking?

Underneath this specially formed window on the moon-grey face of the watch, a lunar disc with a diameter of around ten millimetres rotates, completing a full cycle in 59 days. The disc contains not one, but two images of the Moon and is therefore able to provide a realistic day-by-day insight into its lunation from a new moon to a full moon and back to a new moon over a period of around 29.5 days.



M1-44-05-LB



Movement: SW 280-1, automatic; Mühle version with patented woodpecker neck regulation, anniversary rotor and characteristic surface finishes. Stop-second. Fast date and moon-phase correction. 38-hr power reserve.

Case: Brushed/polished stainless steel. Domed and anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 41.0 mm; H 12.6 mm. Water-resistant to 10 bars. Leather or stainless steel strap with a stainless steel double folding clasp. Screwed strap attachment bridges.

Dial: White. Applied indices. Blued hands.

Teutonia II Weltzeit

Sophisticated slow travel



Nowadays, people always seem to be living life in the fast lane. Our Teutonia II Weltzeit, on the other hand, is the ideal stylish companion for wearers with a more relaxed approach to life, those who take time to get to know their destination and its people when travelling. It not only shows them the time in both their current location and a second time zone but also features a bidirectional bezel marked with the names of cities that can be used to determine the time in 24 different time zones all over the globe.



M1-33-82-MB



- Movement: SW 330-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Second time zone / 24-hour display with world time function. Stop-second. Fast date correction. 42-hr power reserve.
- Case: Brushed/polished stainless steel with a bidirectional inner bezel. Domed and anti-glare sapphire crystal. Transparent case back. Ø 41.0 mm; H 13.0 mm. Water-resistant to 10 bars. Crocodile leather or stainless steel strap with a stainless steel butterfly clasp. Screwed strap attachment bridges.
- Dial: Midnight blue with a sunray finish. Applied indices. Gold-plated und bright nickel-plated hands and indices.

Teutonia II Chronograph

An elegant business watch with a sporty touch



The Teutonia II Chronograph is living (and ticking) proof that an elegant time measuring instrument can also be given a more sporty orientation. This is, of course, mainly achieved by giving the watch a timer function featuring totalisers of the hour and minute counter that give the face a unique dynamic appearance. The watch's diagonally positioned date and weekday display adds to its sporty look.



M1-30-92-LB

Nevertheless, the Teutonia II Chronograph certainly fulfils its role as an elegant business watch thanks to its elegant features. The indices of its midnight blue or silver-coloured face, for example, are applied by hand and bevelled on all four sides. The silver-coloured face features an intricate guilloché finish with a fine, relief-like definition created using a dye-stamping method, while the midnight blue version boasts a fine sunray finish.



Movement: MU 9413, automatic with a woodpecker neck regulation, Glashütte three-quarter plate, own rotor and characteristic Mühle surface finishes. Stop-second. Fast date and weekday correction. 48-hour power reserve.

Case: Brushed/polished stainless steel. Domed and anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.0 mm; H 15.5 mm. Water-resistant to 10 bars. Crocodile leather or stainless steel strap with a stainless steel butterfly clasp. Screwed strap attachment bridges.

Dial: Silver with a guilloché finish or midnight blue with a sunray finish. Applied indices. Blackened or glossy nickel-plated hands.

Teutonia II Tag/Datum

Perfect harmony



As watchmakers and instrument manufacturers, we were tempted by a rather daring idea: given its midnight blue face with an attractive grooved finish, we would have loved to call the latest model in our Teutonia family the Teutonia Nacht/Datum (night/date). Nevertheless, we were able to resist the temptation! After all, just like its sister model, which features a silver face with a guilloché finish, this new Teutonia II Tag/Datum continues to earn its name by displaying both the day of the week ("Tag") and the date ("Datum") and here at Nautische Instrumente Mühle-Glashütte, function comes before design.



M1-33-65-LB



- Movement: SW 240-1, automatic; Mühle version with patented woodpecker neck regulation, its own rotor and characteristic surface finishes. Stop-second. Fast date and weekday correction. 38-hour power reserve.
- Case: Brushed/polished stainless steel. Domed and anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 41.0 mm; H 12.3 mm. Water-resistant to 10 bars. Crocodile leather or stainless steel strap with a stainless steel butterfly clasp. Screwed strap attachment bridges.
- Dial: Silver, guilloché finish or midnight blue with a sunray polish. Applied indices, blackened or glossy nickel-plated hands.

Teutonia II Kleine Sekunde

A blend of simple elegance
and down-to-earth luxury



Out of the ordinary but not out of balance: The arrangement of the off-centre second display at the 6 o'clock position and the Mühle text at the 12 o'clock position give the face of the Teutonia II Kleine Sekunde a particularly harmonious appearance. The watch's balanced look is also complemented by the combination of an elaborate guilloché finish and a sunray finish on its silver-coloured or midnight blue face. These special finishes are not merely for show, but actually give the face additional structure and a particularly clear layout. As is the case with all Teutonia models, this timepiece features applied indices that are attached to its face by hand. The combination of these indices with the equally attractive and practical finishing of the watch faces is a clear sign of the core statement behind this family of watches: simple elegance and down-to-earth luxury. Teutonia watches are ideal for anyone who wants to make a clear statement in their day-to-day business life!



M1-33-45-LB



Movement: SW 260-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hour power reserve.

Case: Brushed/polished stainless steel. Domed and anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 41.0 mm; H 13.0 mm. Water-resistant to 10 bars. Crocodile leather or stainless steel strap with a stainless steel butterfly clasp. Screwed strap attachment bridges.

Dial: Silver with a guilloché finish or midnight blue with a sunray finish. Applied indices. Blackened or glossy nickel-plated hands.

Teutonia II Chronometer

Signed and sealed precision



We attach particular importance to the precision of our watches. For all those who would like this down in black and white, our product range includes the Teutonia II Chronometer. After all of the components have been completed technically and aesthetically, the mechanism carefully assembled and the precise adjustment with our own in-house fine regulation carried out, we put the watch through a very thorough series of tests. After that, every Teutonia II Chronometer that leaves our premises has its certificate - giving its wearer the certainty of owning a chronometer which is both elegant and accurate.



M1-30-45-LB



- Movement: SW 200-1 Mühle Version, automatic, Mühle version with woodpecker neck regulation, own rotor, characteristic surface finishes, stop-second, fast date correction, 38-hr power reserve, chronometer certificate (Glashütte observatory).
- Case: Brushed/polished stainless steel, Anti-glare sapphire crystal, Transparent case back, Screw-in crown, Ø 39.0 mm; H 11.9 mm. Water-resistant to 10 bars, Crocodile leather or stainless steel strap with stainless steel butterfly clasp, Screwed strap attachment bridges
- Dial: Silver with guilloche finish, Applied indices, Blackened hands

Teutonia II Medium

Maximum possible readability and minimum possible dimensions

Our rather more delicate watches are also not only made for decoration purposes. They too are first and foremost time measuring instruments committed to our nautical virtues. We therefore use set limits with regard to the dimensions of a Mühle watch in favour of clarity of display. Thus the diameter of the Teutonia II Medium is 34 millimetres. We considered this to be a good compromise between maximum possible readability and minimum possible dimensions for the more delicate wrist.



M1-30-25-LB



Movement: SW 200-1 Mühle Version, automatic, Mühle version with woodpecker neck regulation, own rotor, characteristic surface finishes, stop-second, fast date correction, 38-hr power reserve.

Case: Brushed/polished stainless steel, Domed, anti-glare sapphire crystal, Transparent case back, Screw-in crown, Ø 34.0 mm; H 11.7 mm. Water-resistant to 10 bars, Crocodile leather or stainless steel strap with stainless steel butterfly clasp, Screwed strap attachment bridges

Dial: Silver with guilloché finish or night blue with solarization, Applied indices, Blackened or nickel-plated hands.



Panova

A perfect watch-life balance

Fewer working hours and more time for the bright side of life: The Panova not only stands out due to its meticulous watchmaking craftsmanship and intricately finished automatic movement but also because it provides its wearers with a perfect watch-life balance.

Panova Blau

The perfect watch-life balance



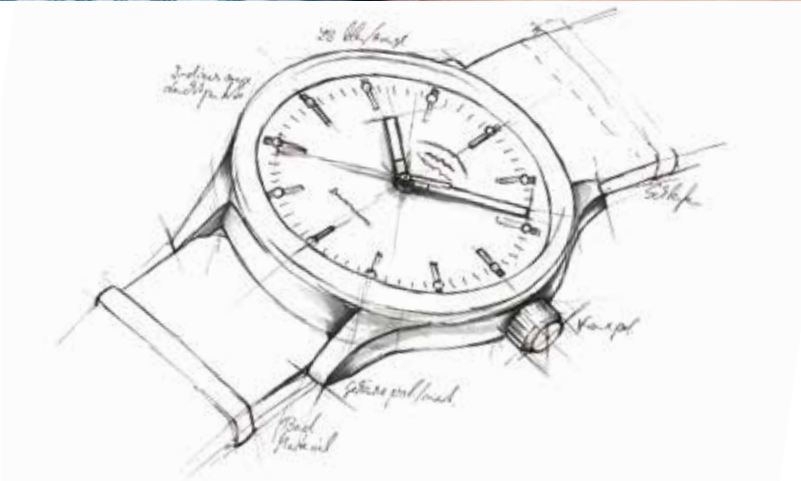
You've made your decision and taken that important first step: Once you've found your path and decided to go through life with a determined yet equally open-minded approach, your eyes will be opened to a world of new opportunities and possibilities. We developed our Panova Blau for everyone who also wants to achieve the perfect watch-life balance. The name of the watch is a combination of the words "panorama" and "via", the Latin term for "road" or "way".

Find out more about the Panova watches at www.muehle-glashuette.de.

40,0

10 bar

M1-40-72-NB



Movement:	SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. 38-hr power reserve.
Case:	Brushed stainless steel. Anti-glare sapphire crystal. Screw-in crown. Ø 40.0 mm; H 10.4 mm. Water-resistant to 10 bars. Textile or leather strap with a stainless steel pin buckle.
Dial:	Blue. Hour markers and hands coated in Super LumiNova.

Panova Grau

Opposites Attract



This timepiece combines serious grey and creative orange and blends traditional mechanics with lifestyle design for a perfect, and luxurious, watch-life balance. These exciting contrasts give the Panova Grau its special appeal and provide the new Mühle watch with its own unique appearance and multifaceted character.

One of the watch’s most attractive features is its metallic grey face, the fine circular graining of which plays with the light and shadows to produce a stunning array of shades of grey. Despite its luxurious beauty, the Panova Grau is more than just a pretty face. It boasts excellent functionality thanks to its extremely clear scale and large hour indices with domed luminous dots, which work in perfect harmony with its luminous hands to always provide excellent readability, even in the darkest of rooms.

Find out more about the Panova watches at www.muehle-glashuette.de.

New 40,0 10 bar

M1-40-75-NB



Movement:	SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. 38-hr power reserve.
Case:	Brushed stainless steel. Anti-glare sapphire crystal. Screw-in crown. Ø 40.0 mm; H 10.4 mm. Water-resistant to 10 bars. Textile or leather strap with a stainless steel pin buckle.
Dial:	Grey. Hour markers and hands coated in Super LumiNova.

Panova Grün

Green means go with this Mühle watch

There are two ways to look at everything that happens in life: while some people can stroll through a stunning green landscape on a beautiful spring day but be immediately irritated when they step on even the smallest of stones, others can wander through the mist of a cold November morning and be delighted to discover fine pearls of water shimmering on the surface of fluffy green moss.

This uplifting green moss is the inspiration behind the new Panova Grün, which uses its stunning green colour to provide its wearers with a constant reminder of hope as they go about their day-to-day lives. The moment you look at the watch, the fine circular graining of its green face is sure to make you feel hopeful. It plays with the light, transforming it into a variety of different reflections and reminding wearers to always look on the bright side of life.



Find out more about the Panova watches at www.muehle-glashuette.de.



M1-40-76-LB



- Excellent readability whatever the time and whatever the weather: the orange hour indices feature raised luminous dots.



Movement: SW 200-1, automatic; Mühle version with patented woodpecker neck regulation, anniversary rotor and characteristic surface finishes. Stop-second. 38-hr power reserve.

Case: Brushed stainless steel. Anti-glare sapphire crystal. Screw-in crown. Ø 40.0 mm; H 10.4 mm. Water-resistant to 10 bars. Textile or leather strap with a stainless steel pin buckle.

Dial: Green. Hour markers and hands coated in Super LumiNova.



M 29 Classic

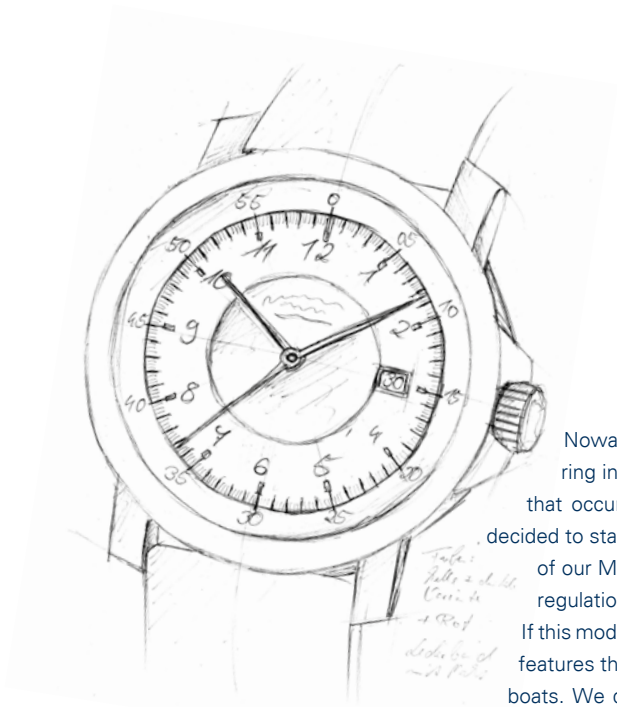
A new interpretation of our family tradition

Our family has now been devoted towards achieving precise measurement since 1869. After originally manufacturing measuring instruments for the watchmaking industry in the German town of Glashütte, we now also build our very own precise time measuring instruments. In the M 29 Classic, both of these focuses come together to form a timepiece that is not only extremely attractive but also has a real sense of tradition.

Robert Mühle's Dial Gauges

The inspiration behind the M 29 Classic

Mühle watches are time measuring instruments with an instrument character that is the legacy of many years of tradition in manufacturing precise measuring devices. Our M 29 Classic aims to make an excellent impression that clearly reflects this tradition at first glance, which is why we have based the design of its face on a Robert Mühle dial gauge. We were above all inspired by the fine scale of our model 29 dial gauge. This scale clearly manifests the values that have been inherent in the development of our instruments right from the start, namely precision and the precise readability of the measurement in question, be it the time or, in the case of a dial gauge, the depth of a drilled hole.



Nowadays, we also place high value on the special robustness of our time measuring instruments. This additional focus is the result of the 'nautical transformation' that occurred in our company history after the reunification of Germany, when we decided to start manufacturing nautical instruments and ship's timepieces. The movement of our M 29 Classic watch is therefore equipped with our particularly shockproof fine regulation, while its case boasts a pressure resistance of up to 10 bars. If this model reminds you of our 29er Big, you're certainly not mistaken. The M 29 Classic features the same case as the 29er Big watch, which was named after a class of sailing boats. We decided to use this case to pay tribute to the historical use of the number 29 and it also acts as an ideal representation of how nautical and dial gauge traditions come together to form the M 29 Classic.



M 29 Classic

Born from a passion
for precision



The M 29 Classic perfectly personifies our family tradition of precise measurement. The parallels between this watch and its historical prototype, the Robert Mühle model M 29 dial gauge, are clear to see, right down to the finest detail. The watch's clear scale clearly stands out against its cream-coloured face, while its finely shaped hands avoid using a counterweight, just like the dial gauge. Another feature of the timepiece is its red hour indices, which not only act as reference points but also underline the watch's instrument character.



M1-25-57-LB



Movement: SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hour power reserve.

Case: Brushed/polished stainless steel. Anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.4 mm; H 11.3 mm. Water-resistant to 10 bars. Stainless steel strap with a butterfly clasp or leather strap with a stainless steel pin buckle.

Dial: Cream. Black hands.



Terrasport

A new element with the same values

As a pilots' watch, it is essential that the Terrasport impresses wearers with the utmost precision, reliability and readability. The Terrasport takes our nautical values away from the water and up to new heights and by doing so, has taken the world of aeronautics by storm.



Terrasport I Chronograph

The legacy of the legendary pilot's chronograph



Time flies with our Terrasport model, not only because it measures time like a classic pilot's watch but also because it takes us back in time to the very beginnings of wristwatch production in Glashütte. The German town has been a hub for the production of elegant timepieces since 1845, but its main focus was initially placed on pocket watches. It wasn't until the end of the 1930s that the production of wristwatches became more prominent in the form of precise and easy to read pilot's watches. At the height of their development, these time measuring instruments were precisely designed to meet their intended purpose. Pilots were equipped with chronographs, on-board navigation officers were given large observer watches and other crew members wore smaller three-hand watches. With the straightforwardness and precision that are typical of Mühle timepieces, the Terrasport I Chronograph adds a new chapter to the history of the pilot's chronograph.



Movement:	MU 9413, automatic with a woodpecker neck regulation, Glashütte three-quarter plate, own rotor and characteristic Mühle surface finishes. Stop-second. Fast date correction. 48-hour power reserve.
Case:	Brushed stainless steel. Anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 44.0; H 13.6 mm. Water-resistant to 10 bars. Stainless steel strap with a butterfly clasp or buffalo leather strap with a stainless steel pin buckle.
Dial:	Black or cream. Hour markers and hands coated in luminous material.

Terrasport IV BRONZE

Take to the Skies with the
Pioneers of Aviation



When you think about Otto Lilienthal or the Wright brothers, what characteristics come to mind? These people were fearless individualists who ignored all of the dangers and disapproving voices to throw themselves off a hill in their biplanes in order to make their dreams of flying a reality. The flight pioneers were also the kind of people who would have absolutely loved the Terrasport IV BRONZE.

In a nod to the two-winged planes that took aviation to the next level, Mühle-Glashütte is now producing its new Terrasport IV BRONZE pilot's watch in not one, but two colours: 250 units with a mocha-coloured face and 250 with a khaki-coloured face. Both versions of this limited special edition not only feature different-coloured faces but also vintage leather straps that are perfectly colour-coordinated for a harmonious design.



Movement: SW 200-1, automatic; Mühle version with patented woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hr power reserve.

Case: Bronze with a fluted bezel. Double anti-glare sapphire crystal. Stainless steel back with a transparent panel. Screw-in bronze crown. Ø 42.0 mm; H 10.2 mm. Water-resistant to 10 bars. Vintage leather strap with a bronze pin buckle.

Dial: Colour: mocha or khaki. Hour markers and hands coated in Super LumiNova.

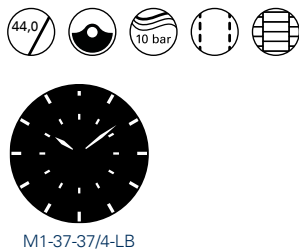
Limited edition: 250 units of each face colour.

Terrasport I Beobachter

Observer watch
from Glashütte



Traditionally, observer watches from Glashütte featured two different dial versions. Like the Terrasport I, the first had large numerals with a minute scale on the outer edge of the face. The second version was equipped with a small inner hour circle and a separate outer minute circle. This dial arrangement highlights the time intervals necessary for navigation, enabling the navigator to take an extremely quick time reading. The Terrasport I Beobachter is inspired by this design - which means that now both dial versions of the traditional "Nav B" watches can be found in our squadron of pilot watches.



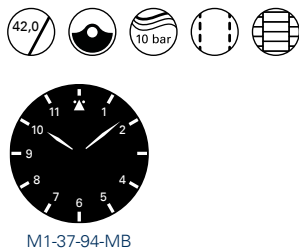
- Movement: SW 200-1 Mühle Version, automatic, Mühle version with woodpecker neck regulation, own rotor, characteristic surface finishes, stop-second, 38-hr power reserve,
- Case: Stainless steel with a brushed finish, Anti-glare sapphire crystal, Transparent case back, Screw-in crown, Ø 44.0 mm; H 10.4 mm. Water-resistant to 10 bars, Buffalo leather strap with stainless steel pin buckle or stainless steel strap with butterfly clasp.
- Dial: Cream or black, Hands and indices coated in luminous material.

Terrasport IV GMT

Fly through Time whilst
Staying on Time



New York today, Rio tomorrow and Tokyo the next day: even the most experienced globetrotters need outstanding organisation skills when it comes to keeping up with the local time in their latest travel destination in a different time zone. Mühle-Glashütte has therefore decided to add another exciting model to its popular Terrasport line: the Terrasport IV GMT that shows wearers the time in not one, but two time zones. This timepiece boasts a stunning design in the style of historic pilots' watches..



M1-37-94-MB



Movement: SW 330, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Second time zone/24-hour display. Stop-second. Fast date correction. 42-hour power reserve.

Case: Brushed stainless steel. Double anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 42.0 mm; H 10.2 mm. Water-resistant to 10 bars. Stainless steel strap with a butterfly clasp or buffalo leather strap with a stainless steel pin buckle.

Dial: Black. Hour markers and hands coated in luminous material.

Terrasport I

The ideal co-pilots for everyday use

The Terrasport I takes on the role of the observation watch in our collection of pilots' watches. With its impressive diameter of 44 millimetres, this model's brushed stainless steel case provides room for a large face and correspondingly expansive minute graduation in which the position of the red second hand can be read in increments of one second. Despite its large size, the Terrasport I provides its wearers with maximum comfort and make this time measuring instruments the ideal co-pilots for everyday use.



M1-37-34-LB



Movement: SW 200-1 Mühle Version, automatic, Mühle version with woodpecker neck regulation, own rotor, characteristic surface finishes, stop-second, 38-hr power reserve,

Case: Stainless steel with a brushed finish, Anti-glare sapphire crystal, Transparent case back, Screw-in crown, Ø 44.0 mm; H 10.4 mm. Water-resistant to 10 bars, Buffalo leather strap with stainless steel pin buckle or stainless steel strap with butterfly clasp.

Dial: Cream or black, Hands and indices coated in luminous material.

Terrasport II

High-flying design with maximum comfort



The Terrasport II is characterised by its combination of classic Mühle values and perfectly coordinated design accents, with the delicate hands and clear numerals on its black or cream-coloured face enabling wearers to read the time at a glance. A second hand with a red end and a corresponding red marker at the 12 o'clock position stand out in contrast to the watch's black or cream background. On top of this, the characteristic use of a triangle instead of the number 12 is an unmistakable reference to the aviation traditions of this time measuring instrument.

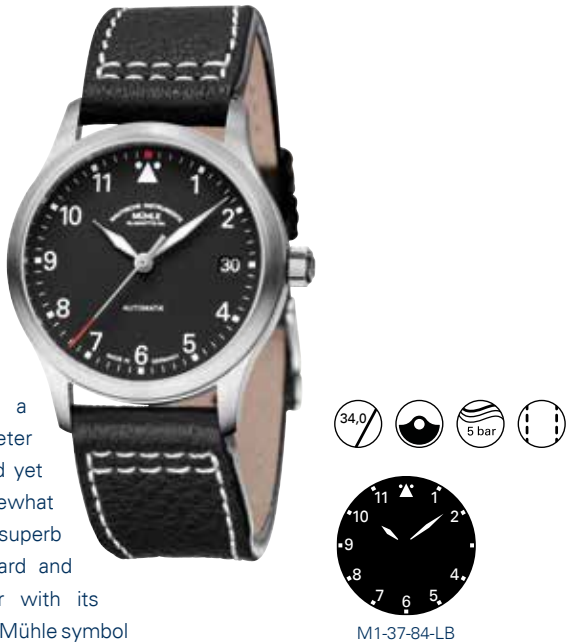


Movement:	SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hour power reserve.
Case:	Brushed stainless steel. Anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 40.0 mm; H 10.0 mm. Water-resistant to 10 bars. Stainless steel strap with a butterfly clasp or buffalo leather strap with a stainless steel pin buckle.
Dial:	Black or cream. Hour markers and hands coated in luminous material.

Terrasport III

Perfectly-matched design elements

Like its older brothers, the Terrasport III is a straightforward, no-frills timepiece. With a diameter of 34mm, it is large enough to read easily – and yet small enough to not appear oversized on a somewhat more slender wrist. Moreover, this timepiece is a superb example for the fact that even a straightforward and no-frills timepiece can captivate the beholder with its meticulous details. This includes not only the noble Mühle symbol on the screw-in crown. Also in the face design, understatement typical to Mühle meets perfectly-matched design elements: such as the red marked second hand and corresponding red marker at the 12 o'clock position.



Movement:	SW 200-1, automatic; Mühle version with woodpecker neck regulation, own rotor and characteristic surface finishes. Stop-second. Fast date correction. 38-hour power reserve.
Case:	Brushed stainless steel. Anti-glare sapphire crystal. Transparent case back. Screw-in crown. Ø 34.0 mm; H 10.0 mm. Water-resistant to 10 bars. Stainless steel strap with a butterfly clasp or buffalo leather strap with a stainless steel pin buckle.
Dial:	Black or cream. Hour markers and hands coated in luminous material.



The History of Mühle-Glashütte

Precise measurement since 1869

Mühle has been firmly rooted in the watchmaking industry of the German town of Glashütte since 1869 and can look back on a history full of courageous company founders, precise time measuring instruments and nautical wristwatches.



1869
The establishment of a family company rich in tradition

1869 marked a new era for our family. Robert Mühle founded a precision mechanical workshop in the German town of Glashütte, where he manufactured high-precision measuring instruments for Glashütte's watchmaking industry for the German School of Watchmaking.



1945
Nationalisation in Glashütte

R. Mühle & Sohn's success story continued right up until the period of commotion that took place after the end of the Second World War, when a large number of companies in Glashütte, including our family business, were expropriated and dismantled.



1970
The fourth generation takes the helm

When Hans Mühle passed away in 1970, his son Hans-Jürgen Mühle took over his father's company. Hans-Jürgen Mühle (*1941) had studied Precision Engineering and Optics in Jena before going on to work at one of his father's company's suppliers. He was therefore very familiar with Mühle's business activities and was able to carry on his father's work until our family was expropriated for a second time in 1972.

In 1994, Hans-Jürgen Mühle re-established the family company under the name of "Mühle-Glashütte GmbH nautische Instrumente und Feinmechanik". By doing so, he wanted to reinstate his full commitment to precision and precise measurement. As the GUB Sales Manager for marine chronometers and marine time systems, he had already established a network of contacts containing shipyards and yacht manufacturers all over the world. The fact that the company Glashütter Uhrenbetriebe GmbH was no longer producing nautical timepieces meant that the demand for traditional marine time systems and marine chronometers from Glashütte was huge. Mühle therefore began his production activities with two employees on 1st April 1994 and was able to successfully establish the new company.



2000
A family company in its fifth generation

Thilo Mühle (*1968) joined the family company in the year 2000 and became the fifth generation of the Mühle family to do so. With his down-to-earth approach typical of Mühle-Glashütte, he initially took on responsibility for the product development of our wristwatches.



2007
Thilo Mühle assumes sole management responsibility

After four years working in the field of product development, Thilo Mühle took on the role of Managing Director alongside his father. In 2007, he finally assumed sole management of the company. His career path is a good example of what we mean when we refer to continuity, tradition and passing on knowledge to the next generation.



2014
Mühle celebrates its 145th anniversary with a manufacturing line

Under the leadership of Thilo Mühle, the company not only developed its first hand-wound movement, MU 9411, but also, and above all, the Robert Mühle RMK 01 to RMK 04 calibres. These calibres form the magnificent centrepiece of the "R. Mühle & Sohn" manufacturing line, which was unveiled on the 145th anniversary of the founding of the company by Robert Mühle.



1918
The Mühle speedometer from Glashütte

Ever since it was founded in 1869, R. Mühle & Son had established a superb reputation as a manufacturer of precise measuring devices. On the basis of this reputation, Paul, Alfred and Max Mühle – the second generation of the family-owned company – were able to successfully expand its production activities into a new field. From 1918/19 onwards, our family therefore also produced speedometers, rev counters and car clocks.

December 1945
The re-establishment of the family company

The expropriation of the company "R. Mühle & Sohn", which had been operating successfully for over 75 years, was a huge blow to our family. Nevertheless, thanks to the third generation of our family company, the name "Mühle" continued to be associated with precise measurement. Hans Mühle founded a new company in December 1945 and as a result, the family company was given the new name of "Ing. Hans Mühle".



1980
Incorporation into the GUB

After being converted into "VEB Feinmechanik Glashütte", the family company "Ing. Hans Mühle" also lost its independence in 1980, when it was incorporated into the "VEB Glashütter Uhrenbetriebe" ('Glashütte Watchmaking Plants'), known as GUB for short, as "Plant Area 7 – Measurement and Control Technology". Hans-Jürgen Mühle was then employed in the GUB sales department and went on to become the Sales Manager of the conglomerate.

1996
The first wristwatches

In 1995, one of the shipyards to which we supplied our products asked us if we could also supply a robust water-resistant wristwatch to be used on its ships. This sparked the start of Mühle-Glashütte's wristwatch development activities. In 1996, the company introduced its "Marinefliegeruhr-I" marine pilots' watch, "Damenttaucheruhr" women's diving watch and "Herren-Sporttaucher-Uhr" men's sport diving watch, the latter of which was the successor to the wristwatch designed for the shipyard.



The patented woodpecker neck regulation

The patented woodpecker neck regulation is a further development of the renowned swan neck fine regulation from Glashütte. Its special shape, which resembles the head and neck of a woodpecker, makes it particularly shockproof. The woodpecker neck regulation therefore not only facilitates the particularly sensitive adjustment of Mühle watches, but also makes them extremely robust.



2008
The newly developed Mühle three-quarter plate

The three-quarter plate is a typical characteristic of high-quality Glashütte watches. It gets its name from the fact that it covers approximately three quarters of the watch movement.

2019
An elegant time measuring instrument is launched to celebrate a double anniversary

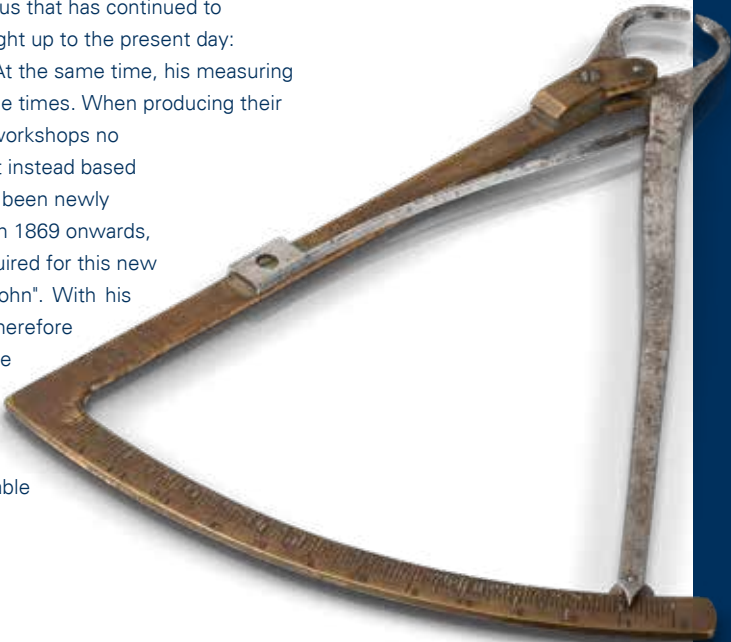
In 2019, we celebrated both the 25th anniversary of Nautische Instrumente Mühle-Glashütte and the founding of the company by Robert Mühle 150 years previously. This marked the start of our family's long-term commitment to achieving precise measurement, which is still going strong in the present day. Be it measuring devices or speedometers, ship's timepieces or wristwatches, the mission of manufacturing precise instruments has been defining the history of our family company ever since it was first founded. Our most complex time measuring instrument to date has been the Robert Mühle Mondphase, which features an up/down display, hand date and moon phase display.



The First Generation: Robert Mühle

The history of our company began with a bold decision made by our founder Robert Mühle. Mühle was born in Lauenstein, a village located a few kilometres away from the German town of Glashütte, in 1841. After completing his apprenticeship with the watch manufacturer Moritz Großmann, he ventured into business on his own and in 1869, he established a company in Glashütte that manufactured high-precision measuring instruments for the local watch industry and watchmaking school.

In doing so, he laid the foundations for a focus that has continued to define our family history and our products right up to the present day: our commitment to precise measurement. At the same time, his measuring instruments were very much in sync with the times. When producing their movements, the up-and-coming Glashütte workshops no longer used the Parisian unit of measure but instead based their work on the metric system, which had been newly introduced in the field of watchmaking. From 1869 onwards, the measuring devices and instruments required for this new system were made by "Robert Mühle & Sohn". With his precise measuring devices, Robert Mühle therefore made an important contribution to the fine reputation of Glashütte as the centre of the German watchmaking industry: In fact, it was only because we worked with such great precision back then that others were able to go on to do the same.



The original location of R. Mühle & Sohn by the road leading into the town of Glashütte
Taken in around 1909: Robert Mühle (front row) with the members of his family

The Second Generation:

Paul, Max and Alfred Mühle

Our ancestors earned recognition for the precision and quality of their measuring instruments at an early stage in the history of our company. At an exhibition in Dresden in the year 1896, for example, they received the city's "Gold Medal". Thanks to their excellent reputation, the Mühle brothers were able to expand their manufacturing activities focusing on measuring instruments to cover a new domain. In the decades after 1920, "R. Mühle & Sohn" therefore went on to also become a supplier of car clocks, speedometers and rev counters for renowned automotive brands such as Horch, Maybach and DKW. The company run by the Mühle family in Glashütte additionally produced counting devices and movements for technical and scientific purposes. These business activities enabled Robert Mühle's sons, Paul, Alfred and Max Mühle, to successfully continue the company's work. Their success story went on right up until the period of commotion that took place after the end of the Second World War.



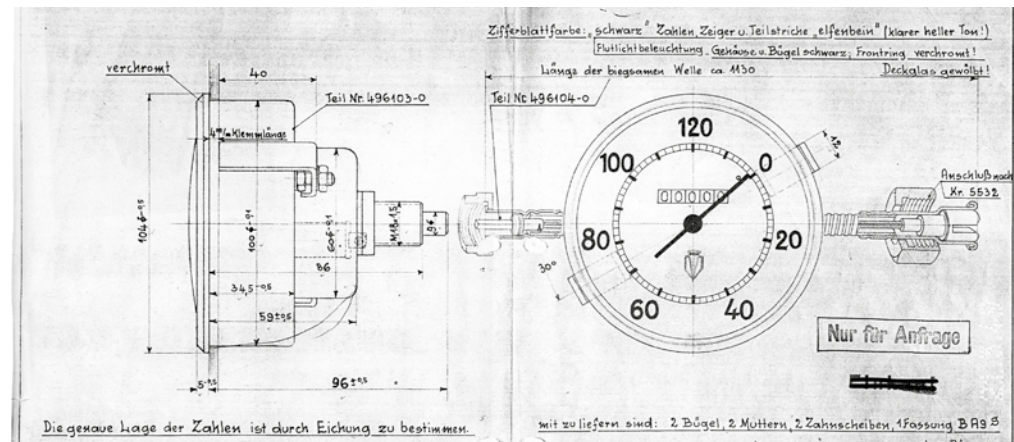
The Third Generation:

Hans Mühle

Like many other companies in Glashütte, our family business was expropriated and dismantled in 1945. The expropriation of the company, which had been operating successfully for over 75 years, was a huge blow to our family. Its existing structure was completely torn apart and parts of the company were incorporated into the Zeiss factories in the German city of Jena under the name of "Messtechnik Glashütte" (Glashütte Measurement Technology).

Nevertheless, thanks to the third generation of our family, the name "Mühle" continued to be associated with precise measurement. In December 1945, Hans Mühle founded a new company that later went on to become the only manufacturer of motion works for pressure and temperature measuring devices in East Germany. During this period of development, the number of staff at his company increased from three to an impressive total of 60 employees within just a few years.

Hans Mühle was born as the son of Paul and Elisabeth Mühle in 1903 and initially worked as a production engineer after completing his university studies. He was born with a passion for precise measurement, not only due to his paternal background, but also thanks to his mother, whose maiden name was Stübner. The Stübner family boasted a strong reputation as manufacturers of chronometers used to time the lighting of beacons. When Hans Mühle passed away in 1970, his son Hans-Jürgen Mühle took over his father's business, which was still a privately owned company despite the political circumstances in the German Democratic Republic.



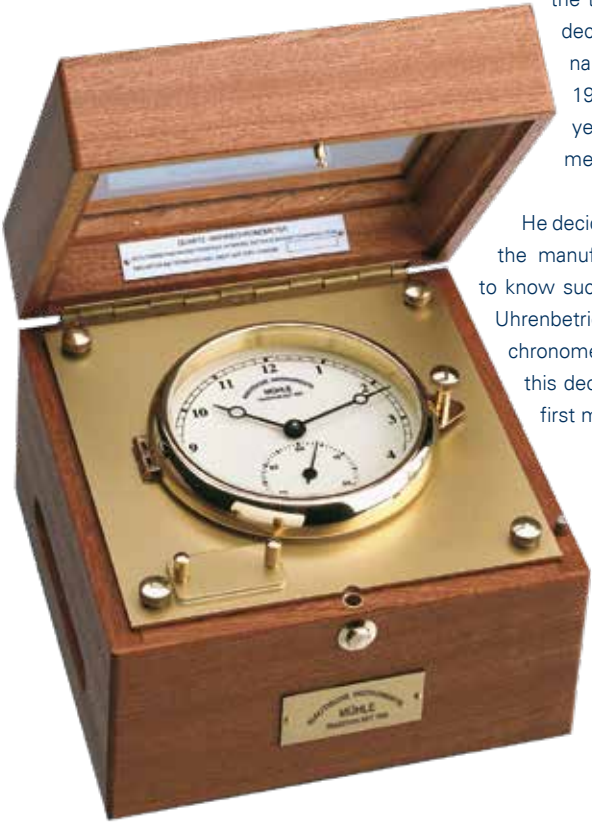
The Fourth Generation:

Hans-Jürgen Mühle

Hans-Jürgen Mühle (*1941) studied Precision Engineering and Optics in Jena before going on to work at one of his father's company's suppliers. He was therefore very familiar with Mühle's business activities and was able to carry on his father's work until our family was expropriated for a second time in 1972. The company was first turned into a state-owned enterprise and later integrated into the VEB Glashütter Uhrenbetriebe (Glashütte Watchmaking Plants). Despite the expropriation, Hans-Jürgen Mühle was fortunately able to continue to work for the company and when Germany was reunified in 1990, he was the Sales Manager of VED Glashütter Uhrenbetriebe. In order to lead the company into the then introduced economic system, Mühle and four other colleagues were appointed managing directors.



After successfully completing this task, however, Hans-Jürgen Mühle left Glashütter Uhrenbetriebe GmbH because he saw his true calling in another area. Mühle was extremely committed to his family company and the tradition of his forefathers and therefore decided to found "Mühle-Glashütte GmbH nautische Instrumente und Feinmechanik" in 1994. By doing so, he achieved his desire to yet again fully focus on precision and precise measurement.



He decided to apply the knowledge that our family had acquired in this field to the manufacturing of marine chronometers and wristwatches after getting to know such measuring instruments as the Sales Manager of VEB Glashütter Uhrenbetriebe. Our family has been producing high-precision marine chronometers, marine time systems and other nautical instruments ever since this decision was made and two years later, the company also launched its first mechanical wristwatch.



The Fifth Generation:

Thilo Mühle

Our family has now been driven by its passion for precise measurement for over 145 years. The expertise that we have acquired over this time and the values to which our company always remains true have been passed down from father to son throughout our history. It therefore comes as no surprise to hear that Thilo Mühle (*1968) followed in his father's footsteps and joined the family company in the year 2000. With his down-to-earth approach typical of Mühle-Glashütte, Thilo Mühle initially took on responsibility for the product development of our wristwatches. He then went on to share managerial duties with his father four years later before finally assuming sole management responsibility in 2007.

Thilo Mühle's career path is a prime example of what we at Nautische Instrumente Mühle-Glashütte mean when we refer to continuity, tradition and passing on knowledge to the next generation. After all, these factors are all essential when it comes to ensuring that the expertise incorporated into our wristwatches, marine chronometers and nautical instruments will be preserved for many years to come. They also enable us to rest assured that our time measuring instruments will constantly be further developed because future generations will help to progress our development activities with their new ideas.

Under the leadership of Thilo Mühle, such new ideas have not only resulted in the development of the company's first hand-wound movement, the MU 9411, but also, and above all, the creation of the Robert Mühle calibres in our "R. Mühle & Sohn" manufacturing line.



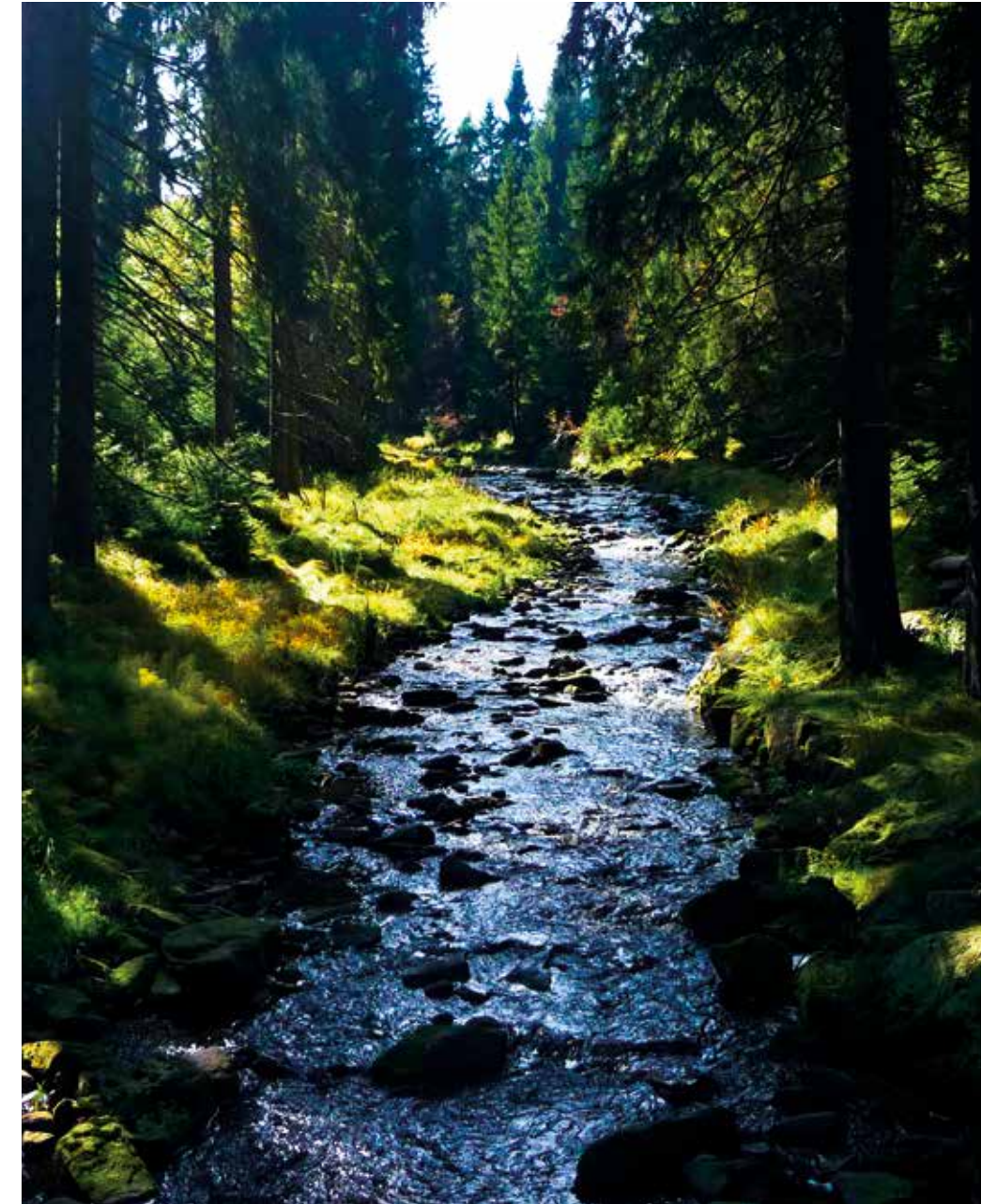
The sixth generation:

Dustin Mühle

Dustin Mühle (*1991) is the son of Thilo Mühle. Unlike his father, whose career path was laid out for him due to the former political circumstances in the German Democratic Republic, he was able to choose from a variety of different training options. Most young people who grew up in Glashütte during the existence of the GDR only had to answer one question: Will I become a toolmaker or a watchmaker? Just like his great-great-grandfather Robert, Thilo Mühle decided to train as a toolmaker.

Dustin Mühle also decided to learn a skilled trade after achieving his “Abitur”, the German university entrance qualification. He initially trained as an aircraft mechanic at Dresden Airport. After completing his three-and-a-half-year-long training programme, he studied Industrial Engineering and Management at Dresden University of Applied Sciences, focusing on the topic of business management in medium-sized companies. His final thesis explored an economic topic and used Mühle-Glashütte GmbH as an example. This clearly set the course for his future involvement in the family company.

Dustin Mühle has been a permanent member of staff at Mühle-Glashütte since February 2018 in a role that involves analysing our production processes and organisational structure. Together with his father, he is putting the family company in a strong position for the future and thus ensuring that Mühle-Glashütte will continue to be an independent family company for many generations to come.





Mühle Technology

Committed to precise measurement

We expect every single Mühle movement to meet the highest standards in terms of quality and precision. We therefore design and manufacture a large number of components that are important for the precision and reliability of a Mühle movement ourselves. Our patented, especially shockproof woodpecker neck regulation is a prime example of this committed approach.

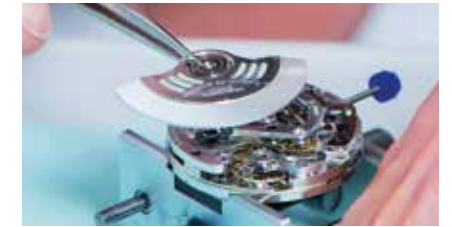
Tradition and Innovation

The technology behind Mühle-Glashütte movements

The movement of a Glashütte watch is the defining factor that makes it stand out from other watches. It therefore has a very special standing in Germany's top watchmaking destination. Glashütte movements are characterised by a number of special features, one of which is the three-quarter plate. After originally being introduced in 1864, this plate has continued to be a typical indicator of high-quality Glashütte watches right through to the present day. A three-quarter plate is now used in all of Mühle's "MU 94" movements. Another traditional characteristic of a Glashütte movement is its swan neck fine regulation. Here at Nautische Instrumente Mühle-Glashütte, we further developed this regulation and had it patented as our woodpecker neck regulation. By doing so, we made the regulation traditionally used in Glashütte particularly shockproof. This was an important achievement given that we manufacture a large number of sports watches and timepieces that need to prove their worth in tough situations on a day-to-day basis, for example difficult on sea rescue missions. This unique fine regulation enables Mühle movements to be recognised at a glance. The same can be said for our Mühle rotor, the crowning glory of our automatic movements.



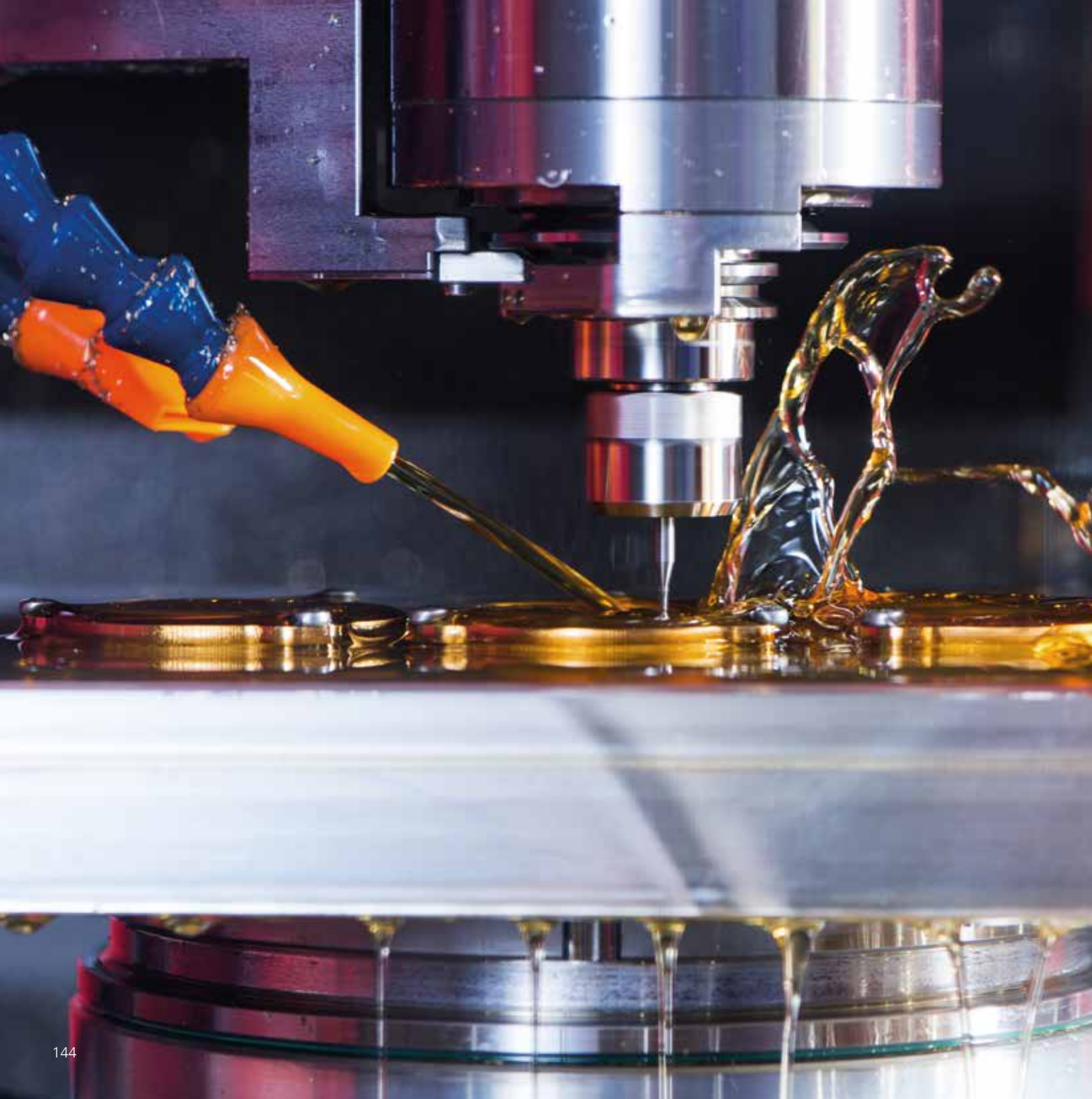
The Mühle rotor



The Mühle three-quarter plate



The woodpecker neck fine regulation



The Patented Woodpecker Neck Regulation

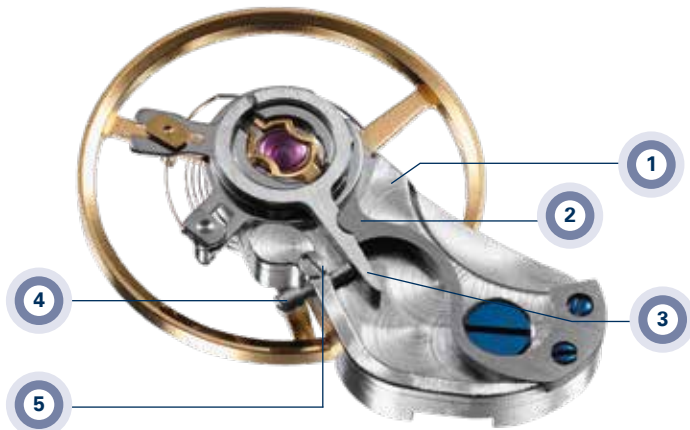
Precision in even the toughest of conditions

Wearers of our watches need to be able to rely on them at all times. This is why our team at Mühle-Glashütte always goes above and beyond what is actually necessary. Our woodpecker neck is therefore also used in Mühle watches that, unlike our S.A.R. Rescue-Timer, do not have to prove their worth on dangerous rescue missions. We developed our fine regulation in 2003 in order to ensure the accuracy of our movements in even the toughest of conditions. In the case of conventional fine regulations, hard knocks and shocks may cause the regulator arm to jump up between the regulation screw and the counter-pressure spring. This can in turn lead to changes in the position of the balance staff or the regulation of the watch.

Our specially shaped woodpecker neck spring prevents the regulator arm from being able to move upwards by slotting into a semicircular depression in the regulator. It therefore not only pushes the regulator arm against the fine regulation screw from the side, but also pushes it down onto the balance cock at the same time.



Our woodpecker neck regulation gets its name from the characteristic shape of its spring, which resembles the head and neck of a woodpecker. The watch can be adjusted as usual by turning the fine regulation screw. This moves the woodpecker neck arm and increases or decreases the effective length of the balance spring, while the specific momentum of the woodpecker neck spring facilitates the particularly sensitive regulation of the watch. Once the watch has been adjusted, the fine regulation screw is additionally fixed into place with a clamping screw.



The components of our patented woodpecker neck regulation:
 1) specially shaped Mühle balance cock; 2) woodpecker neck spring;
 3) woodpecker neck arm; 4) fine regulation screw;
 5) clamping screw for the final regulation screw



The Characteristic Mühle Rotor

Making efficient use of gravity

In order to ensure that a watch continues to function reliably and precisely over a long period of time, all components of its movement need to work together perfectly: from the rotor through to the gear train and right through to the escapement and regulation. We have therefore not only developed our own fine regulation, but also pay maximum attention to our rotor.

The rotor is responsible for powering our automatic watches. The arm movements of the wearer cause the rotor to oscillate, thus enabling it to use its rotation to wind the watch. We ensure that this process occurs efficiently by manufacturing our rotor with our own equipment and based on our own designs. After all, it is essential that every aspect of our rotor is absolutely perfect and produced with the lowest possible tolerances.



A Mühle rotor consists of an engraved middle segment and a special semicircular ring made of heavy metal, which reinforces the rotor's ability to rotate downwards due to the earth's gravitational pull. This oscillating weight is connected to the outer edge of the middle segment by four gold-plated rivets. We press a special ball bearing into the middle of this segment in order to reduce friction, which is important given that the constant movement puts a particularly heavy load on the rotor bearing. In the final stage of the rotor-manufacturing procedure, the rotor is coated with a wafer-thin layer of a platinum-group element in a nickel-plating or rhodium-plating process. This gives it its impervious glossy silver surface.



The development of a Mühle rotor (from left to right): a brass blank from parts manufacture, a deburred middle segment with Glashütte solarisation and a finished rhodanised middle segment

The Mühle Three-Quarter Plate

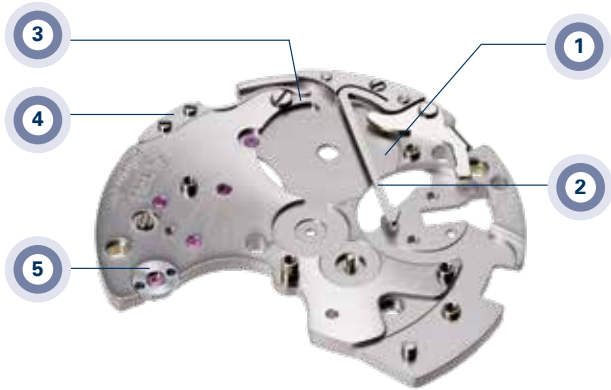
Keeping Glashütte tradition alive

We give our chronographs an extra-special technical treat in the form of our self-developed three-quarter plate. The three-quarter plate is a typical characteristic of high-quality Glashütte watches. It gets its name from the fact that it covers approximately three quarters of the movement and serves the purpose of keeping the spring barrel, crown wheel, ratchet wheel and the entire gear train in a stable position.



As is traditional in the town of Glashütte, we have fitted our three-quarter plate with the classic Glashütte click, which significantly reduces the pressure on the ratchet wheel and thus minimises signs of wear. The three-quarter plate additionally features a removable escape wheel bridge. This component is not only highly attractive thanks to its red bearing jewel and two blued screws but also, and above all, makes the watch easier to service by allowing the escape wheel and even the entire escapement to be removed and cleaned more easily.

The three-quarter plate also enabled us to increase the durability, serviceability and aesthetics of the basic movements (ETA 7753 and/or SW 500 and SW 510) that we use. Given that we not only install our three-quarter plate in these movements, but also design the regulation, balance cock, automatic bridge and rotor ourselves, we mark them with our own calibration marks with pride.



The components of the Mühle-Glashütte three-quarter plate: 1) three-quarter plate; 2) cam jumper; 3) ratchet pawl of the Glashütte click; 4) retaining spring of the Glashütte click; 5) removable escape wheel bridge



The Mühle-Glashütte Movements

Precision and reliability

The wristwatches produced by Nautische Instrumente Mühle-Glashütte not only stand out due to their maximum level of precision but also their robustness and reliability. The best example of these excellent characteristics is the S.A.R. Rescue-Timer, which has now been the wristwatch of choice on the rescue cruisers of the German Maritime Search and Rescue Service (DGzRS) for an impressive total of over ten years. As can be expected, the cases of our timepieces and

above all their movements must be able to withstand the mechanical stress and strain involved when used in such a setting. In 2003, we therefore developed our own fine regulation, which ensures the accuracy of our movement in even the toughest of conditions. All of the movements that we have developed ourselves are fitted with our woodpecker neck regulation. We also use our regulation in field-tested movements that we obtain from Swiss manufacturers and then modify and finish in accordance with our high standards. You can find a selection of these movements and information on their most important functions below.



MU 9415
not included in the current collection

Hand-wound with a woodpecker neck regulation and Glashütte three-quarter plate. Ø 25.6 mm; H 3.4 mm. 42-hour power reserve. Functions: hour, minute and second with stop-second; date with fast date correction. Characteristic Mühle surface finishes with blued screws, solarisation on the crown and ratchet wheel and crossgraining on the three-quarter plate and balance cock.



MU 9413
Automatically wound with a woodpecker neck regulation, Glashütte three-quarter plate and Mühle rotor (removed in the image). Ø 30.0 mm; H 7.9 mm. 48-hour power reserve. Functions: hour, minute and small second with stop-second; chronograph with stop-second, 30-minute and 12-hour counters, fast date correction and, where applicable, weekday correction. Characteristic Mühle surface finishes with blued screws, Glashütte solarisation and perlage.



SW 330-1
Version Mühle

Automatically wound with a woodpecker neck regulation and Mühle rotor. Ø 25.6 mm; H 4.1 mm. 42-hour power reserve. Functions: hour, minute and second with stopsecond; a second time zone and/or 24-hour display; date with fast date correction. Characteristic Mühle surface finishes with blued screws, Glashütte solarisation and perlage.



SW 200-1
Version Mühle

Automatically wound with a woodpecker neck regulation and Mühle rotor. Ø 25.6 mm; H 4.6 mm. 38-hour power reserve. Functions: hour, minute and second with stop-second; date with fast date correction. Characteristic Mühle surface finishes with blued screws, Glashütte solarisation and perlage.

Impressum

© February 2020

Mühle-Glashütte GmbH

nautische Instrumente und Feinmechanik

Altenberger Strasse 35

01768 Glashütte/Sa.

Germany

Tel.: +49 35053 32030

Fax: +49 35053 3203136

E-mail: info@muehle-glashuette.de

Website: www.muehle-glashuette.de

Mühle-Glashütte GmbH nautische Instrumente und Feinmechanik reserves the right to change the design and technical features of the watches and movements presented in this catalogue. You can find the latest technical information at www.muehle-glashuette.de. Errors excepted.

Concept, text and layout: Mühle-Glashütte GmbH nautische Instrumente und Feinmechanik

Photography:

Nico Savignac, www.watchdesigner.de

David - WATCHDAVID®, www.watchdavid.com

Wristrockers, www.wristrockers.com

Jungnickel Fotografie, www.jungnickel-fotografie.de

Jürgen Jeibmann Photographik, www.jeibmann-photographik.de

Fotos DGzRS: DGzRS, Per Kasch und Thomas Steuer, www.seenotretter.de

Translation: www.itkplus.de