

LANG & HEYNE
DRESDEN

MANUFACTURERS OF FINE WATCHES

BORN IN SAXONY



LIMITED EDITION | ENGLISH

PRINCE-ELECTORS AND KINGS OF SAXONY (1127 - 1873)

Nobel namesakes of the LANG & HEYNE Collection



Friedrich II.
The Serious



Friedrich III.
The Strict



Georg
The Bearded



Moritz
Prince elector of Saxony



Augustus I.
Prince elector of Saxony



Friedrich August I.
Prince elector of Saxony



Anton
The Kind



Johann
King of Saxony



Albert
King of Saxony

LANG & HEYNE
DRESDEN

MANUFACTURERS OF FINE WATCHES

PROCESSION OF PRINCES - DRESDEN

HEINRICH

FRIEDRICH III.

GEORG

AUGUSTUS I.

FRIEDRICH
AUGUST I.

JOHANN

KONRAD

FRIEDRICH II.

MORITZ

ANTON

ALBERT





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LANG & HEYNE Dresden

EDITORIAL

Dear watch enthusiasts
and valued friends of LANG & HEYNE,

„Without craftsmanship and handwork, a beautiful work of fine art will never emerge and, as such, a perfectly crafted item will never lack beauty.“ These words by painter and writer Wilhelm von Kügelgen, taken from his 1842 narrative „Three Lectures of Art“, encapsulate the philosophy of LANG & HEYNE where the highest degree of watchmaking craftsmanship meets timeless elegance and beauty.

Our new catalogue is designed to take you on an exciting and informative journey, showcasing twenty years of outstanding watchmaking since the company's foundation. We hope to give you an appreciation for our enthusiasm, knowledge, ability and dedication as we lead you through our production process from concept and creative design to technical construction and exacting hand assembly. At each step, our master watchmakers, with exceptional talents in their respective fields, work to exacting standards of precision and apply sure judgment to ensure the technical perfection and optimal quality of each horological work of art they create.

The principles underlying our quality standards and esteem for watches are in-line with the high benchmarks set by the renowned Saxon court clockmakers of the 18th century.¹⁾ These principles guide our entire philosophy and LANG & HEYNE's approach to watchmaking, allowing us to reinterpret extraordinary masterpieces with modern technology, contemporary know-how and personalized attention-to-detail.



Alexander Gutierrez Diaz, CEO

As such, not only the namesakes of our watch collections reflect the nobility of the past but traditional methods, watchmaking skill and practiced craftsmanship also guide our manufacture resulting in timepieces of the highest caliber.

Drawing upon the technical skill and knowledge of the old masters as well as years of horological experience and reflections of contemporary life, our team was recently inspired to create "Hektor"- the noble, young, bold and promising new member of our family - also "Born in Saxony".

Stay tuned!

Cordially,
Alexander Gutierrez Diaz
CEO

1) Johann Gottfried Köhler (1745 to 1800), Saxon Precision Timekeeping; Johann Heinrich Seyffert (1751 to 1818), Pocket Chronometer; Johann Friedrich Schumann (1758 to 1817), Johann Christian Friedrich Gutkaes (1785 to 1845), father-in-law of Ferdinand Adolf Lange (1815 to 1875), Founder of A. Lange Dresden in Glashütte (1845).

MARKETS

We endeavour to ensure that LANG & HEYNE watches exceed the highest expectations of quality and value for a premium time measurement instrument.

Clients around the world have come to appreciate our horological creations and the high level of personalised customer service that accompanies them. Our global partners are kept abreast of all developments to ensure you receive competent, informed advice in an efficient and timely manner.

Furthermore, thanks to the interplay of on-site presence and digital communication, we are always available to meet the needs of discerning customers which is why we aim to provide authentic, factual and relevant answers to all questions related to LANG & HEYNE timepieces.

As with many things in life, it is important to understand the story behind the product and our network of global partners is there to help you navigate your journey.



LANG & HEYNE
Authorised Dealers





COLLECTION



In-line with our tradition-based philosophy we view the acquisition or gift of a LANG & HEYNE timepiece as an homage to Dresden's renowned court watchmakers. As such, ownership conveys a sense of presence and heritage, serving as a compliment to its wearer. After all, a LANG & HEYNE timepiece stands for a well-conceived design, the highest level of watchmaking precision and exceptional composition.

GEORG



Ergonomically formed cases

Our GEORG model impresses with its clear contours, elegant lines and precise edges. The dial, numerals, hands and large seconds merge into a symphony of horological aesthetics. The sapphire crystal case back provides a clear view of the sophisticated movement architecture. Masterfully finished components and a minimalistic structure afford a generous view of the functional and beautiful aspects of this mechanical masterpiece.

FUNCTIONS & FEATURES

Hour and minute display, large eccentric second Ø 14.5 mm

DIAL

Rectangular two-piece white „Grand Feu“ - enamel or black galvanized from solid silver, Art Deco numerals with blue or red accents, lancet hands

CASE

Dimensions without lugs 40 x 32 mm, height 9.4 mm sapphire crystal & sapphire crystal exhibition case back, anti-reflective coating on both sides, Water resistant up to 3 bar

MOVEMENT

Hand-wound Caliber VIII (see p. 45)

STRAP

Alligator leather with shark lining, pin or folding clasp



View of the Caliber VIII work through the sapphire crystal exhibition case back



Georg – additional information





Platinum, black galvanized silver dial with round minute track, cathedral hands in polished steel



18ct rose gold, white enamel dial, lancet hands in rose gold



Platinum
lancet hands
in polished steel
black galvanized
silver dial



18ct rose gold
lancet hands in rose gold
black galvanized
silver dial



18ct rose gold
lancet hands
in blued steel
white enamel dial



18ct white gold
lancet hands
in rose gold
white enamel dial

ANTON

FUNCTIONS & FEATURES

Hour and minute display, second display via lyra-shaped cage

DIAL

Rectangular two-piece white "Grand Feu" enamel dial, Art Deco numerals with blue accents, lancet hands

CASE

Dimensions without lugs 40 x 32 mm, height 9.4 mm sapphire crystal & sapphire crystal exhibition case back, anti-reflective coating on both sides, water resistant up to 3 bar

SPECIAL FUNCTIONS

Flying tourbillon

MOVEMENT

Hand-wound Caliber IX (see page 45)

STRAP

Alligator leather with shark lining, pin or folding clasp



Anton – additional information



Calibre IX with two diamonds

LANG & HEYNE watches are known for their clean aesthetics which are further enhanced in our ANTON. The even proportions of the rectangular dial allow a cut-out at the position normally assumed by the small second to reveal the delicate bogie of this magnificent Tourbillon. Originally created to enhance precision on portable watches, the tourbillon complication was enhanced by brilliant minds from the Saxon Watchmaking School in Glashütte in the early 1900s. Their contribution further refined the tourbillon mechanism into a flying tourbillon, cantilevered with bearings only on one side as we see it now in LANG & HEYNE's premium line. Today a tourbillon wristwatch is a symbol of extraordinary craftsmanship and signifies ardent dedication to the art of watchmaking.



Platinum lancet hands in blued steel



Large flying minute-tourbillon Ø 11.1 mm



LANG & HEYNE CRAFTSMANSHIP

Construction

WATCH CREATION

Inquiry leads to innovation. Indeed, many discoveries in historical and contemporary watchmaking were the result of customer requests, professional competencies and sheer determination that triggered creative processes in watchmakers and compelled them to seek innovative solutions.

Our team of creative minds endeavours to uphold this commitment by continuing to evolve horology in new and exciting ways. We invite you to follow the developmental stages of our watch manufacture and marvel at the unfolding creations that begin with sketches, drafts and hand drawings.



Concept sketch – an homage to the Glashütter tower clock



Sketch transfer to 3D models

CONSTRUCTION & DESIGN

Achieving the logical arrangement of a large number of intricate components into the smallest of spaces, with the smoothest possible interaction, touches upon the limits of technical feasibility. Yet this is exactly what is required to create a watch collection. Competent specialists, engineers, qualified technologists and experienced master craftsmen all play a part

in model creation and execution in order to conceive a complex, holistic development and design process and implement it consistently. For example, Georg's case geometry requires a specific caliber with exacting parts that begin as drawings, derived from 3D models, that detail material specifications, dimensions and tolerances to ensure a seamless result (1:1).

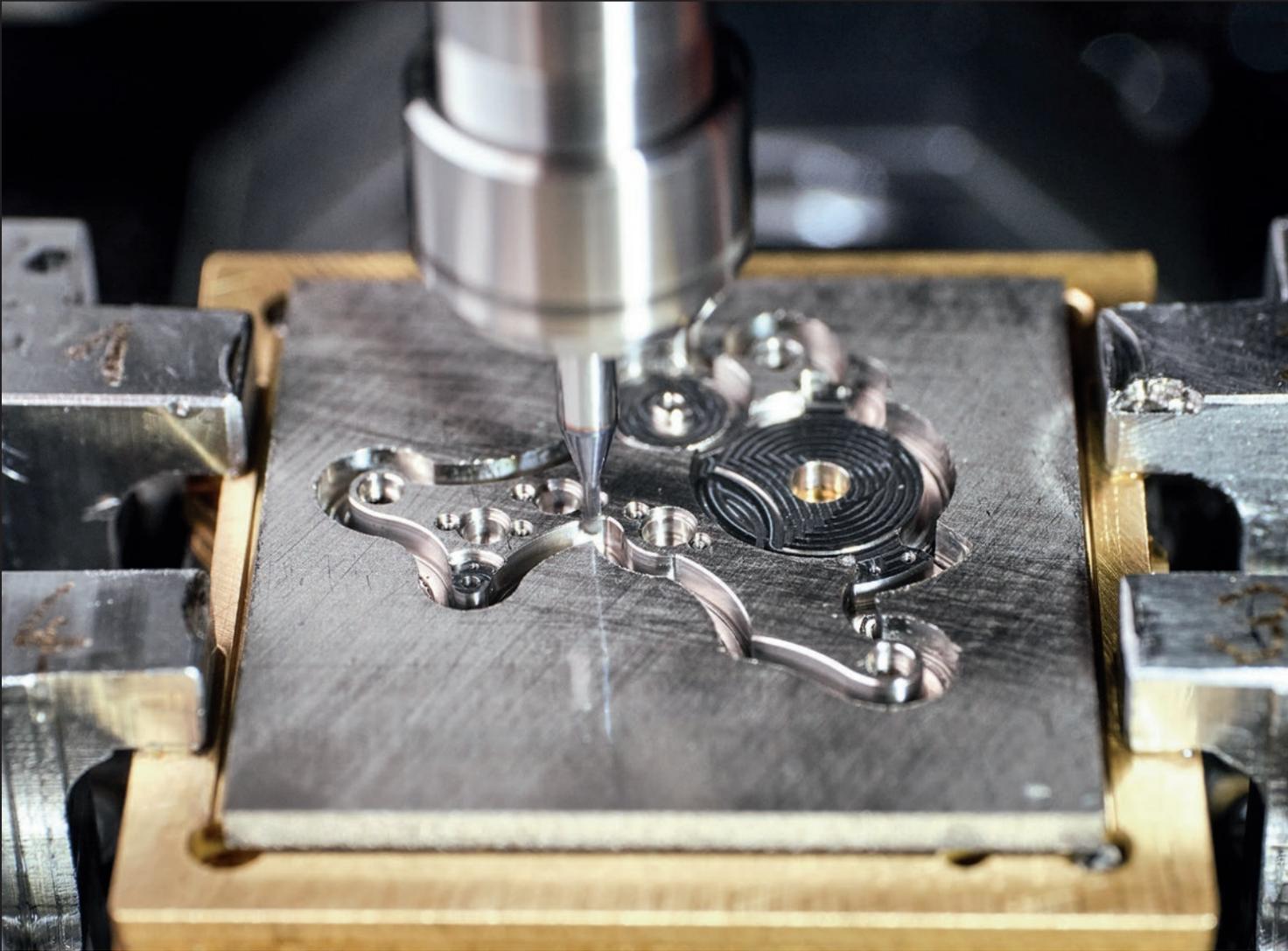


We work as a team to constructively organize every aspect of watch design and process implementation.

HIGH-GRADE MATERIALS

The stunning craftsmanship in each LANG & HEYNE timepiece is enhanced by the use of special materials chosen for their beauty, durability and worth. Careful selection of the most appropriate materials for movements, dials and cases ensures each piece delivers optimal functionality as well as a magical air of beauty and timeless elegance.

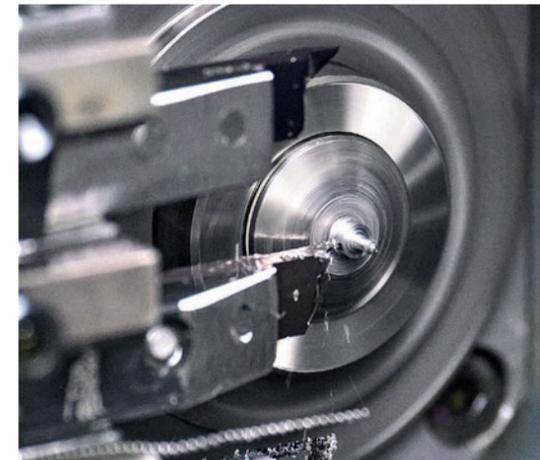




FINE PARTS

The manufacture of fine watches requires a multitude of intricate parts whose shape, size and geometry are calculated and designed within the smallest tolerances at each step of production through to final polishing and assembly.

This laborious task requires precision and certainty to ensure even the smallest drives, six-fold wheels, plates and housings come together seamlessly to create the beating heart of each LANG & Heyne masterpiece.

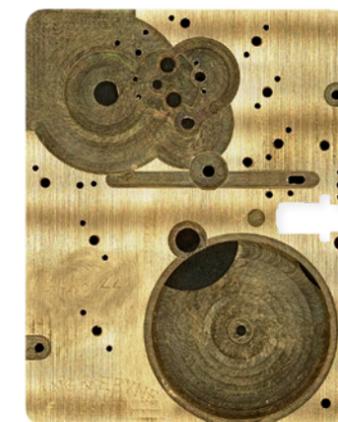


IN-HOUSE PRODUCTION

In a world of vertical supply chains, we proudly confirm that 97% of a LANG & HEYNE watch movement is manufactured in-house. We only call on external suppliers for highly specialised components such as raw spirals and jewels. This rare level of manufactory expertise places us among the globe's top watch brands.

QUALITY CONTROL

In order to retain consistency throughout production, the dimensional accuracy of raw and finished parts is subject to ongoing assessment and quality control. Optical checks are conducted using modern measuring machines and video CAD devices while small details, such as precise bores, undergo intense manual checks with test pins and measuring probes. As such, craftsmanship and quality is defined down to the finest detail at LANG & HEYNE.



Milled plate



MODERN MACHINE TECHNOLOGY

LANG & HEYNE utilizes the best aspects of traditional handwork and contemporary CNC machine technology to streamline and perfect its watch collections. This integrated approach ensures the highest levels of manufacturing precision can be met, free from the necessity to rely upon third party providers. It delivers both flexibility and adaptability to overcome any challenges that may arise during the production process in order to retain stringent, in-house quality standards.

FRIEDRICH II



Trigonal bridge displays the movement

FUNCTIONS & FEATURES

Hour and minute display, large eccentric second

DIAL

Three-part lacquered dial, concentric Art-Deco numerals, spade or cathedral hands

CASE

Dimensions without lugs diameter Ø 39.2 mm, height 10.5 mm sapphire crystal & sapphire crystal exhibition case back, anti-reflective coating on both sides, water resistant up to 3 bar

MOVEMENT

Hand-wound Caliber VI (see p. 44)

STRAP

Alligator leather with shark lining, pin or folding clasp

FRIEDRICH II presents an elegant three-hand watch that is minimised for the essentials of timekeeping. The pristine white lacquered, tri-level dial features diamond-polished, bevelled edges for crisp delineation.

This clean style is mirrored in the concentric, Art Deco numerals and oversized small second positioned on the lower portion of the dial. Clever construction of the calibre, assembled towards the front of the watch, creates ample space for the striking dial to take centre stage.



Friedrich II – additional information



18ct rose gold
spade hands in rose gold



18ct white gold
cathedral hands in rose gold

FRIEDRICH III



FUNCTIONS & FEATURES

Hour and minute display, large eccentric second

DIAL

Frosted silver or black galvanized silver dial, Roman numerals, cathedral hands or three-level black or blue dial with gloss bevel

CASE

Dimensions without lugs diameter Ø 39.2 mm, height 10.5 mm sapphire crystal & sapphire crystal exhibition case back, anti-reflective coating on both sides, water resistant up to 3 bar

MOVEMENT

Hand-wound Caliber VI (see p. 44)

STRAP

Alligator leather with shark lining, pin or folding clasp

FRIEDRICH III presents a restrained and traditional interpretation of the classic three-hand watch. The Roman numerals set around the dial coordinate beautifully with the cathedral hands to deliver a charming visual treat. This finely balanced optic flows through to the decentralised second that is neatly positioned in the lower half of the dial. The generous exhibition case back affords a wonderful view of the calibre VI architecture. You may notice that the unique trigonal bridge is designed to expose as much of the beautifully finished gear train as possible while allowing adequate spacing between the wheels to ensure optimal power transmission. FRIEDRICH III is available in a variety of dial finishes to suit a variety of tastes.



Friedrich III – additional information



18ct white gold cathedral hands in rose gold frosted silver dial



Platinum cathedral hands in blue steel frosted silver dial



Steel, cathedral hands in rose gold, black galvanized, silver dial



Steel, pike hands with HyCeram filling, blue silver dial



18ct rose gold cathedral hands in rose gold black galvanized, silver dial



Steel cathedral hands in polished steel black galvanized, silver dial



Steel pike hands with HyCeram filling blue silver dial



Steel pike hands with HyCeram filling black galvanized, silver dial

FRIEDRICH AUGUST I



Each timepiece is engraved by hand

FUNCTIONS & FEATURES

Hour and minute display, eccentric second

DIAL

Three-piece white "Grand feu" enamel dial, Arabic numerals, red minute track, Louis XV or spade hands

CASE

Dimensions without lugs diameter Ø 43.5 mm, height 10.5 mm sapphire crystal & sapphire crystal exhibition case back, anti-reflective coating on both sides, Water resistant up to 3 bar

MOVEMENT

Hand-wound Caliber I (see p. 42)

STRAP

Alligator leather with shark lining, pin or folding clasp

Friedrich August I exemplifies the unique nature of LANG & HEYNE watches that derive their character from the striking design of their cases, hands and dials. On this piece, the fanciful juxtaposition between the filigree Louis XV hands and the subtle, clear dial works wonderfully against the context of time. The movement is equally alluring thanks to its classic, silver-grained three-quarter plate, perfectly set gold chatons surrounding flaming rubies and iridescent flame-blued screws. Friedrich August I is indeed a flight of horological fancy, topped off with attention-to-detail and watchmaking precision.



Friedrich August I – additional information



18ct rose gold
spade hands
in rose gold



Platinum
Louis XV hands
in blued steel

JOHANN



Calibre I based on Saxon pocket watches

Like its namesake, Johann affords a distinctly noble presence on the wrist with its classic design and uncompromising style. The sleek dial exudes elegance in either pristine, white "Grand feu" enamel or sophisticated black electroplated silver upon which glide either spade or cathedral hands, according to your choice. Johann's heart is modelled on the design of classic Saxon pocket watches, well-known for their fidelity and longevity, to ensure it continues beating as long as you require.

FUNCTIONS & FEATURES

Hour and minute display, eccentric second

DIAL

Two-piece, white "Grand feu" enamel or black galvanized, solid silver dial
Roman numerals,
spade or cathedral hands

CASE

Dimensions without lugs
diameter Ø 43.5 mm, height 10.5 mm
sapphire crystal & sapphire crystal
exhibition case back,
anti-reflective coating on both sides,
water resistant up to 3 bar

MOVEMENT

Hand-wound Caliber I (see p. 42)

STRAP

Alligator leather with shark lining,
pin or folding clasp



Johann – additional information



18ct white gold
spade hands
in blue steel
white enamel dial



18ct rose gold
cathedral hands in rose gold
black galvanized,
silver dial

LANG & HEYNE CRAFTSMANSHIP

Hand-finishing

As a nod to the supreme discipline and skill required to refine and ennoble horological components, LANG & HEYNE proudly showcases its high quality movements through generous, sapphire crystal, case backs. Allowing you to view the precision and perfection we covet so dearly signifies our commitment to the noble craft of watchmaking.



Silver grinding is only achievable by hand



SILVER GRINDING

This surface-finishing technique is a rediscovered and enhanced tradition that dates back to the 18th and 19th century. Prior to treatment, exposed areas are roughened by means of sandblasting.

This prepares them for the application of a special silver powder mixture which is applied to plates and bridges with a stiff-bristle brush that creates a fine, grain-like surface comparable to leather.

BEVELLED EDGES

To create the fine finish inside each LANG & HEYNE movement, all visible and non-visible bevels surrounding the gear train are reworked by hand. Each section, down to the smallest edge, is enhanced via a uniformly applied pressure polish to deliver a shine and smoothness that perfectly frames the golden gears set inside.



Polishing paper and a whetstone create the subtle raised, curved surface of the hands.



Finissage is applied on a custom-built, domed tool

CHAMFERING AND POLISHING

Regardless of style and form, each watch hand manufactured at LANG & HEYNE is treated with great care. The extensive finishing process incorporates painstaking grinding and polishing stages to ensure all of our hands from spade, lancet and cathedral to the intricate Louis XV share the same high quality finish. Circumferential diamond grinding is applied to the edges to achieve a smooth, curving surface while the underside is ground flat to reduce abrasion. The visible portion of each hand is initially chamfered with a ceramic whetstone before being buffed to a beautiful, reflective finish in preparation for setting. Each stage is dependent upon perfection of the previous in order to achieve the sublime end result that differentiates our hands and distinguishes our dials.



Steel balance cocks raw and refined

Each finely-tuned component featured in our Georg and Anton models is lavishly chamfered and polished in detail. For example, in order to create an aesthetic contrast against the flame-blued screws, steel cock yokes are blasted to achieve a satin sheen while the bevel on the opposing end of the cock is highly polished before being set with its ruby jewel. The result is simply stunning and showcases each component as a separate and beautiful feature within its movement.



Lancet hands raw and refined



You can view these and other handcraft steps in more detail on our website



SUNBURST POLISHING

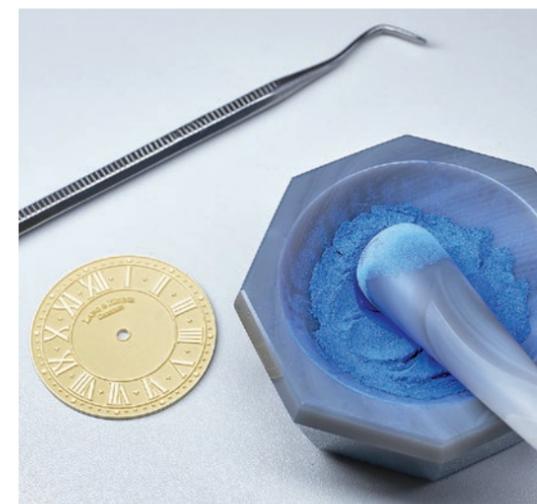
Named after the central star in our solar system, sunburst polishing is a sophisticated surface refinement typically found on high-end watches from Saxony. In advance, specially-developed technology is used to carefully angle gear teeth in order to maximise the polishing effect and minimise wear. Once prepared, the delicate sunburst finish is applied to crown and ratchet wheels designed to capture and reflect light in a playful and alluring manner.



The crown wheel with single-banded sunburst finish

ENAMELLING

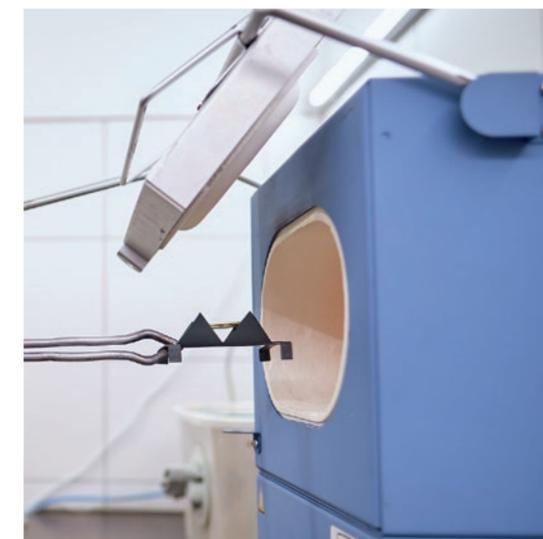
Artfully combining fire and glass requires not only skill and experience but also a certain willingness to challenge boundaries. The art of enamelling dates back millenia, enjoying its heyday in watchmaking during the 17th century. LANG & HEYNE prides itself on its artisanal knowledge and specialist skill in this area which allows us to create spectacular dials that would turn the head of any courtier. In order to gain a perfect result, several key stages in the enamelling process must be strictly controlled. Initially, with the aid of a microscope and extremely fine brush, tiny glass crystals are hand applied to the surface in preparation for firing. This process is repeated three to four times until the surface is completely filled and can be wet-sanded to create an even surface. The final stage is a high gloss polish or smooth firing which creates the sublime sheen typical of quality enamel finishes on LANG & HEYNE timepieces.



A milled gold plate after deburring and initial gold firing



Hand-applied glass crystals fill the relief structure



Enamel entering the oven for firing

In watchmaking, true art is born from the combination of natural science and artisanal craftsmanship adopted by master watchmakers. Nowhere is this better showcased than enamelling, flame-annealing and traditional Saxon sunburst polishing where extensive knowledge of materials, perfect timing, steady hands and a trained eye are key to mastery.

THE ART OF ANNEALING

Flame-blued hands and screws deliver a delightful contrast against steel, coloured or golden surfaces and add an element of prestige to each LANG & HEYNE timepiece. However, the art of annealing metal over a flame to exactly the desired hue requires patience and skill.



Manually flame-blued screws in the movement

One moment of miscalculation and the elusive cornflower blue tone disappears forever. Even, steady heat is required to temper the material to the desired colour and our specialized craftsmen are well-versed in this delicate process.

Through the manual process, each refined piece is unique and consists of subtle reflective nuances that individualize and add character and beauty to the timepiece as a whole.

ALBERT



FUNCTIONS & FEATURES

Hour and minute display, eccentric second, chronograph with centred seconds and minute counter

DIAL

Two-piece "Grand feu" enamel or black galvanized, silver dial
Roman numerals with blue or white minute track

CASE

Dimensions without lugs diameter Ø 44 mm, height 12.5 mm
crown with integrated pusher, sapphire crystal & sapphire crystal exhibition case back, anti-reflective coating on both sides, water resistant up to 3 bar

FUNCTIONS

Chronograph

MOVEMENT

Hand-wound Caliber IV (see p. 43)

STRAP

Alligator leather with shark lining, pin or folding clasp

Albert delivers the functionality of a chronograph without the visual complexity or necessity of sub-dials so you can take time to enjoy the precision of timekeeping. Thanks to the thoughtful integration of the chrono pusher into the crown and the centralization of hands, LANG & HEYNE manages to retain Albert's classic form and deliver fine craftsmanship with added timekeeping features. Although the dial hides its complexity well, the impressive play of levers and springs that drive the column-wheel can be appreciated fully via the generous exhibition case back.



Albert – additional information



18ct rose gold
spade hands, flame-blued
white enamel dial



18ct white gold
spade hands in rose gold
black galvanized, silver dial

MORITZ



FUNCTIONS & FEATURES

Hour and minute display, eccentric second, moon phase, full calendar, earth declination

DIAL

Finely-blasted, champagne white, silver dial
Arabic numerals with red minute track, enamelled moon & earth disk in 18ct gold spade hands, flame-blued steel

CASE

Dimensions without lugs
diameter Ø 44 mm, height 12.5 mm
two laterally recessed pushers
sapphire crystal & sapphire crystal exhibition case back, anti-reflective coating on both sides, water resistant up to 3 bar

FUNCTIONS

Declination, moon phase, full calendar

MOVEMENT

Hand-wound Caliber III (see p. 42)

STRAP

Alligator leather with shark lining, pin or folding clasp



Moritz – additional information

MORITZ is a masterpiece of horological design, delivering a trove of information as you start or end your day. The finely-blasted silver dial delivers classic symmetry, balancing each sub dial with intelligence and consideration. A day and date wheel sits at 3 o'clock and is balanced by a full calendar opposite. The moon phase, located at the bottom of the dial, is balanced by a unique earth declination disk at the top of the dial. The earth and moon disks are intricately milled and enamelled using a traditional Champlévé technique. One final feature is the subtle day and night display framed by a gold chaton at the centre of the dial to inform and delight its wearer with this hidden gem of information.



18ct white gold spade hands, flame-blued

Enamelled declination disk: Three options



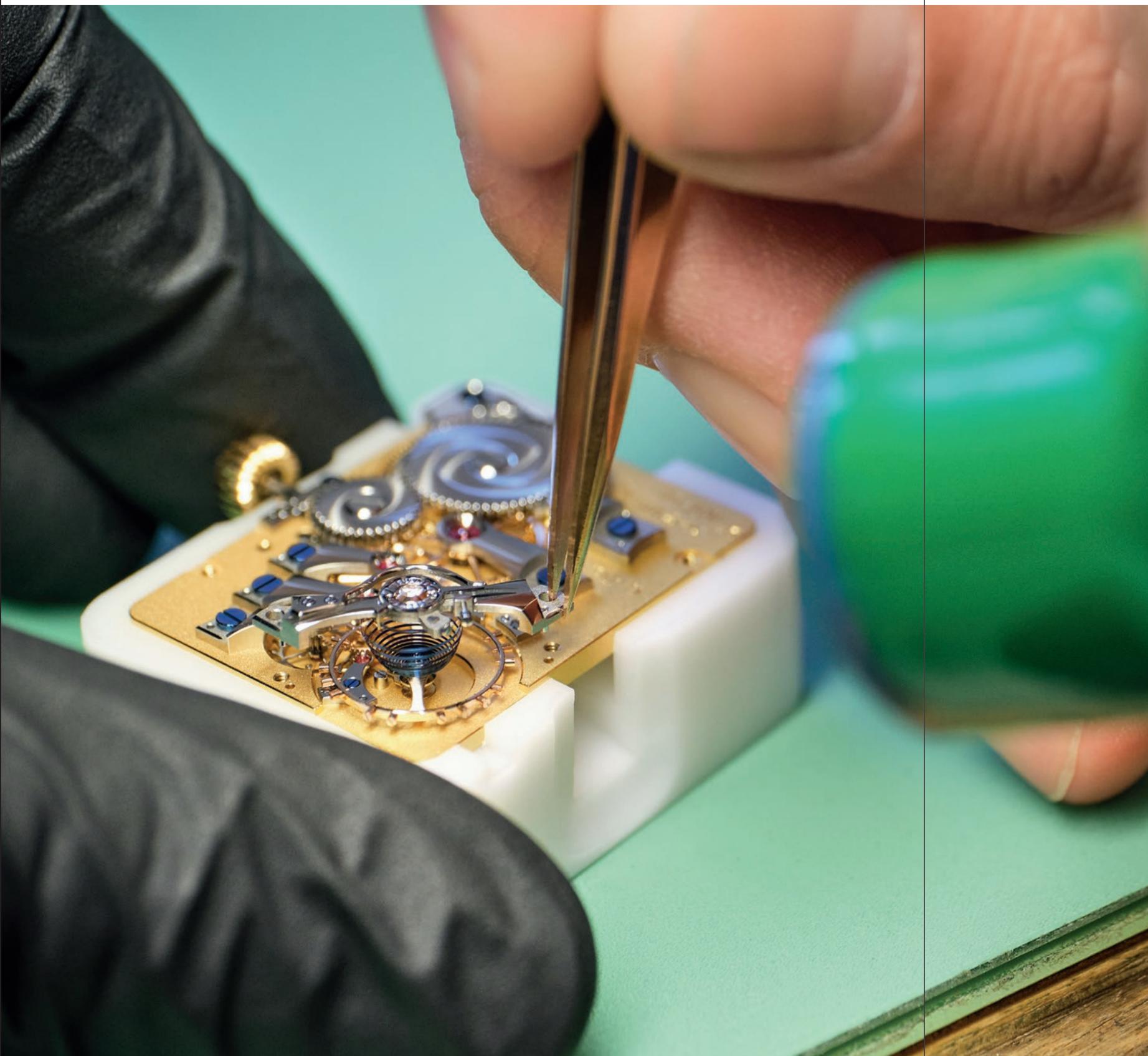
North and South America



Europe Africa



Asia Australia



CALIBER

Spurred on by technological progress and increased demand, the first production movements for wristwatches, now known as calibres, emerged in Switzerland and France towards the end of the 19th century. Up to that point horology had been the domain of nobility and technically-minded craftsmen. In our modern, brand-driven world, a manufactory caliber stands for a functionally reliable, high-quality mechanical structure created to specific dimensions of movement architecture guided by precision and performance. As such, contemporary in-house calibres represent the supreme discipline of watchmaking and make a statement about a company's commitment and development potential. LANG & HEYNE's in-house calibers combine cutting edge innovation as well as the precision and high standards set by Saxon court watchmakers to deliver a contemporary interpretation of horological engineering design principles and artisanal, manual production methods – the very best of both worlds.

CALIBER I

THREE-HAND WATCH

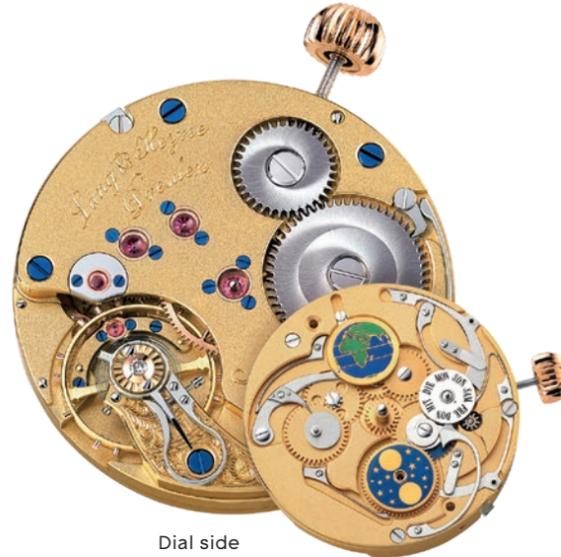


Diameter	16 ¼ line diameter (36.6 mm)
Height	5.5 mm
Frequency	18,000 semi-oscillations per hour (2.5 Hz)
Running time	46 hours
Jewels	19 rubies, 1 brilliant cut diamond
Components	151 parts
Functions	Hour / minute / eccentric second at 6 o'clock, stop-seconds system for precise hand positioning
Models	Friedrich August I Johann

Classic movement architecture based on the Saxon watchmaking style towards the end of the 19th century. Features include: ¾ plate; rubies set in gold chatons; screwed, gold-set anchor jewel; polished bevells on the wheel bridge and cock; sunburst refinement on the winding wheels; hand-engraved balance cock with swan neck regulation crowned by a diamond pivot stone.

CALIBER III

FULL CALENDAR, DECLINATION,
MOON PHASE



Dial side

Diameter	16 ¼ line diameter (36.6 mm)
Height	7.1 mm
Frequency	18,000 semi-oscillations per hour
Running time	46 hours
Jewels	19 rubies, 1 brilliant cut diamond
Components	216 parts (incl. Moon, earth and day plates)
Functions	eccentric second, day, moon phase, month, day/night display, declination
Models	Moritz

Built to LANG & HEYNE's classic, in-house horological architectural style, the superb refinements of this caliber are hidden under the dial. Some of these features include: the special gold milled earth and moon disk which is enamelled in colour using the Champlevé technique; the day/date display which is triggered to flash exactly at midnight; special quick-set mechanism for the date, month and declination display is operated via the various crown settings.

CALIBER IV

MONOPUSHER CHRONOGRAPH



Diameter	16 ¼ line diameter (36.6 mm)
Height	7.0 mm
Frequency	18,000 semi-oscillations per hour
Running time	46 hours
Jewels	22 rubies, 1 brilliant cut diamond
Components	151 parts
Functions	centred chronograph second and minute three-phase operation start-stop-reset via crown
Models	Albert

Chronograph movement with centred hour and minute hands; large golden clutch wheels to ensure perfect engagement and smooth hand movement; six-pronged, bevelled drive wheels in solid gold; graceful levers and springs follow the movements of the ratchet wheel; double zero reset and brake lever (second & minute)

CALIBER V

SECOND REMONTOIR



Diameter	14 ¼ line diameter (33 mm)
Height	6.25 mm
Frequency	18,000 semi-oscillations per hour
Running time	24 hours seconds winder/total of 48 hour power reserve (33hr for Heinrich models)
Jewels	27 rubies (Konrad)/ 29 rubies (Heinrich), 1 brilliant cut diamond
Components	246 parts
Functions	Seconds remontoir (winder) (intermediate winding every second); central jumping second; central prograde (forward moving) date up/down power reserve gauge (Heinrich)
Models	Konrad (currently not available) Heinrich (currently not available)

By adopting a trigonal wheel bridge instead of a ¾ plate the movement is opened up to reveal key features such as: solid gold, six-pronged impellers, a large balance wheel, moustache anchor and a remontoir spiral spring which all work in unison to ensure constant force is applied for consistent balance wheel amplitude over time. Another feature of this calibre is the prograde date.

CALIBER VI

THREE-HAND WATCH



Diameter	14 ¼ line diameter (33 mm)
Height	4.9 mm
Frequency	18,000 semi-oscillations per hour
Running time	55 hours
Jewels	19 rubies, 1 brilliant cut diamond
Components	143 parts
Functions	hour/minute/eccentric second at 6 o'clock; seconds stop
Models	Friedrich II Friedrich III

The classic, minimalistic movement architecture is open to view via the use of a trigonal wheel bridge. Features include: a gold lever escapement with moustache anchor, swan-neck fine adjustment, seconds stop mechanism and a beautifully engraved balance cock set with a diamond pivot stone to protect the sensitive balance pivot from shock.

CALIBER VII

ANNIVERSARIES AND BIRTHDAYS

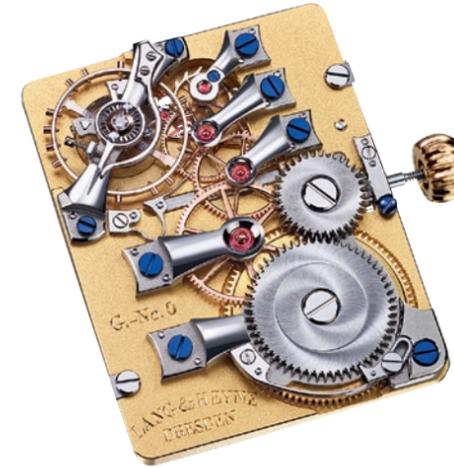


Diameter	16 ¼ line diameter (36.6 mm)
Height	7.0 mm
Frequency	18,000 semi-oscillations per hour
Running time	46 hours
Jewels	19 rubies, 1 brilliant cut diamond
Components	303 parts (incl. program ring and year plate)
Functions	hour/minute/date/month; personalized program ring and age calculator eccentric second at 6 o'clock; seconds stop setting is facilitated over the crown
Models	Augustus I (currently not available)

Special complications hidden under the dial include: two micro-differential gears that facilitate calculation of up to 12 special events or anniversaries; two hands indicate the countdown to each event when requested; adjustment between modes and events is facilitated via a dedicated pusher integrated into the crown; full calendar and 18ct gold lever and wheel bridges and balance cock.

CALIBER VIII

THREE-HAND WATCH



Dimensions	34mm x 26.5mm
Height	4.8 mm
Frequency	18,000 semi-oscillations per hour (2.5 Hz)
Running time	55 hours
Jewels	19 rubies, 1 brilliant cut diamond
Components	160 parts
Functions	hour/minute/eccentric second at 6 o'clock; seconds stop
Models	Georg

This calibre presents the reinterpretation of Saxon craftsmanship for a modern era with its avant-garde stainless steel bridges that feature delicately arched cocks and countersunk jewels, golden wheels, seconds stop function and a decadent diamond pivot stone. This is where beauty meets functionality.

CALIBER IX

FLYING TOURBILLON



Dimensions	34mm x 26.5mm
Height	5.5 mm
Frequency	18,000 semi-oscillations per hour (2.5 Hz)
Running time	70 hours
Jewels	17 rubies, 2 brilliant cut diamonds
Components	163 parts
Functions	hour/minute/second via the lyra-shaped cage
Models	Anton



Flying Tourbillon

The flying minute-tourbillon is the most noble of complications and features a delicately designed cantilever cage, three-pronged golden nib for enhanced shock resistance, a fixed seconds wheel and two expertly set diamonds.

LANG & HEYNE CRAFTSMANSHIP

Assembly



ASSEMBLY

Once all parts are finished to our exacting standards the next step is to bring them together to form a fully operational timepiece. LANG & HEYNE's assembly process involves a well-planned, highly structured and controlled two-stage operation consisting of pre and final assembly stations. During pre-assembly all components are matched to one another, stones and pins are set in place and the wheel mechanism is tested in order to create its first rhythmic beating. Refined hands are united and fastened into their custom-formed socket where they sit proudly on the dial to complete the face of each watch. The final stages of assembly see the movement positioned into its case and finished off with a fine alligator leather strap and clasp. The result is a treat to behold and a moment of pride for the LANG & HEYNE team.

QUALITY CONTROL

No timepiece leaves our manufactory prior to passing a stringent set of quality control checks conducted over several days. These tests aim to optimise the interaction of all parts to ensure complete functionality at the time of handover.

Did you know?

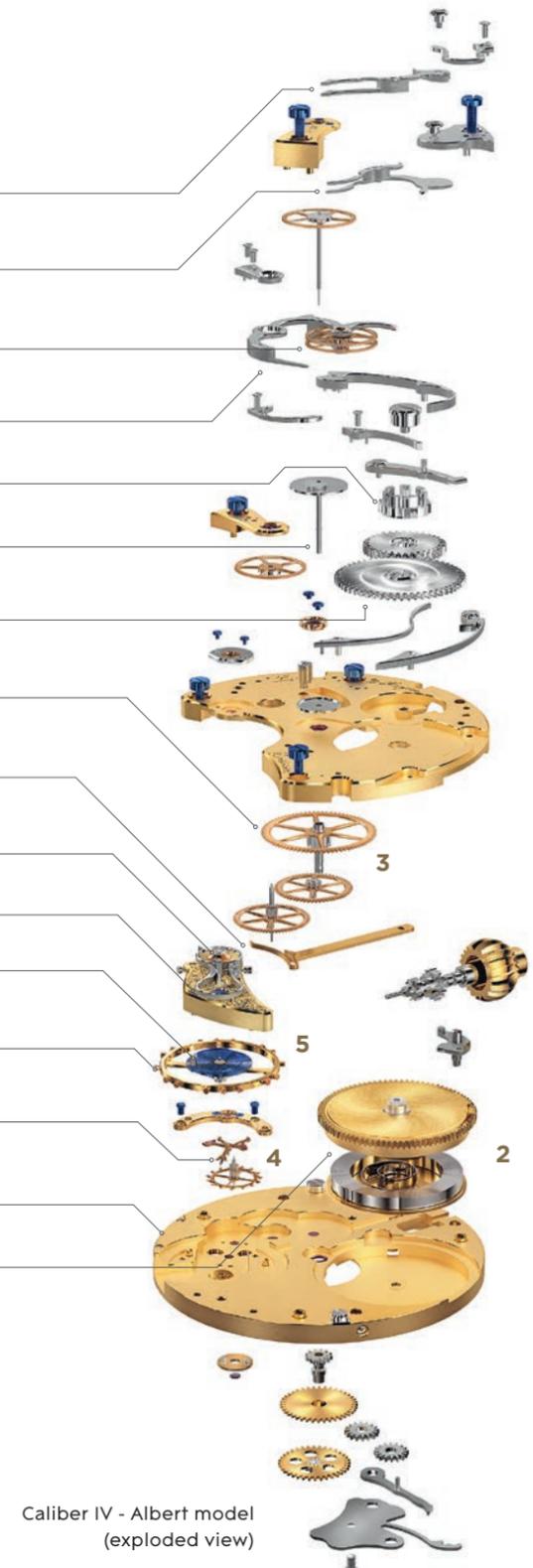
LANG & HEYNE's calibers consist of up to 303 individual parts. Some of these components are so small that they can hardly be distinguished from a small splinter.



The date hand on a Moritz

- 1 - Double zero-reset lever (second & minute)
- 2 - Double brake lever (second & minute)
- 3 - Double chrono transmission wheel with 200 teeth
- 4 - Rocker with decoupling minute friction lever
- 5 - Intermediate wheel with 7 pillars
- 6 - Minute friction disc with zeroing heart
- 7 - Winding wheels with sunburst finish and polished chamfers
- 8 - Solid gold wheels with chamfered spokes
- 9 - Second stop mechanism for precise adjustment
- 10 - A diamond set in gold to crown the pivot
- 11 - Swan-neck fine adjustment
- 12 - Breguet overcoil hairspring
- 13 - Balance with solid gold screws
- 14 - Gold lever escapement with moustache anchor
- 15 - Engraving plate for optional monogram customization
- 16 - Barrel with sunburst finish

INDIVIDUAL PARTS



Caliber IV - Albert model (exploded view)

HOW A WATCH MOVEMENT WORKS

Every mechanical movement is made up of six important sections that transfer and guide the initial force through to the dial display in the most efficient manner.

6. POINTER MECHANISM

The pointer train translates the motion of the wheel train into the rotation of the hands above the dial.

5. BALANCE

The constantly vibrating balance wheel works in conjunction with the hairspring to regulate the amplitude of power transmission.

4. ESCAPEMENT

The lever escapement transfers the driving force to the balance wheel in a periodic, rhythmic cycle.

3. GEAR TRAIN

The multi-gear transmission transfers energy from the drive to the escapement. To optimise efficiency, a ring gear always engages with the smaller drive of the next wheel.

2. DRIVE

The barrel houses a spring that provides driving power for at least 48 hours after winding (power reserve varies depending upon movement type)

1. WINDING MECHANISM

Here energy is supplied for operation and the time can be set via the crown.



VARIETY

Each of our collections represents a unique interpretation of time expressed through a variety of functions, designs and expertly assembled mechanical systems but they all share common features that identify them as LANG & HEYNE timepieces. Hallmarks of our manufactory include: triple lugs and exquisitely finished cases, elegant dials and beautifully refined movements visible through sapphire crystal exhibition case backs and small series production that guarantees exclusivity, attention to detail and high quality.

If, however, you desire further individualization we offer an extensive variety of bespoke options in terms of case materials, straps, dial colours, engraving and case enrichment with precious stones. The following section provides some idea of the possibilities, but ultimately there are no limits to your imagination or our willingness to create.

OPTIONS

With each of our models we offer the choice of case material, hand style, strap colour and buckle type so you can match your timepiece to your lifestyle needs. Each bespoke watch is personalised with its own number that identifies it as your personal, one-of-a-kind watch from LANG & HEYNE.



CASES

Each of our stunning LANG & HEYNE models is available in either 18ct rose gold, 18ct white gold or 950 platinum depending upon your preference. All cases made of precious metals are stamped with corresponding hallmarks and selected models are available in stainless steel for a more robust wear.



HANDS

The colour and shape of hands is also customizable according to your wishes. Whether you opt for the more modern lancet shape or prefer the historic flourish of Louis XV hands, quality and beauty pervade.



- 1 Spade hand in flame-blued steel
- 2 Cathedral hand in polished steel
- 3 Lancet hand in rose gold
- 4 Louis XV hand in rose gold

DIALS

Certain models within our collection are available in various dial finishes, highlighting the unique nature of each design. Dial variants include black galvanized silver and pristine white enamel. Given this creative freedom, you can ensure that your LANG & HEYNE timepiece reflects your sense of style.



18ct rose gold

18ct white gold

950 Platinum



Silver - frosted finish



White enamel



Black galvanized

STRAPS

The finishing touch to any high-end timepiece is a finely-crafted strap. We offer a selection of genuine alligator leather straps that have been colour-matched and carefully curated to suit each model. The special shark lining, embossed with LANG & HEYNE's logo, delivers a high level of wearer comfort and durability over time.



black

dark blue

dark brown

red brown

BUCKLES & CLASPS

To complete your strap, you can select between a classic pin buckle or a convenient and secure folding clasp. Each option is available in either steel, 18ct rose gold, 18ct white gold or platinum.



Top: Pin buckle, Bottom: Folding clasp

BESPOKE FINISHES

Unique timepieces epitomise the supreme discipline of fine watchmaking as created by consummate craftsmanship and masters of the art of horology. Let the following examples inspire you to make your LANG & HEYNE watch a true work of art.



HAND ENGRAVING

Horological engravers adopt skills that are steeped in time. The shape of their classic tools and their manual methods have changed little over centuries as they work elegant lines, motives and fonts into material with painstaking attention-to-detail and dedication. As standard, each LANG & HEYNE watch is engraved with our company name, the model name and identification number as well as a rich floral engraving on the balance cock in round-case models. If you require additional decoration, the art of engraving offers unique and beautiful opportunities to further individualize your watch. In fact, we welcome the opportunity to work with fellow artistic souls. Lending language and voice to silent metal is master engraver Matthias Köhler's passion. Knowledgeable in all aspects of style, ornamentation, motive design and execution, Matthias transforms fine lines into small masterpieces that can adorn your LANG & HEYNE timepiece upon your request.



1

Examples of engraving

- 1 Engraved case back lid (optional)
- 2 Plate engraved with monogram 'M&K'
- 3 Arabesque engraving on balance cock
- 4 Engraved cock and gear train bridge



1



4



GEMSTONES

Diamonds, rubies and sapphires refine every watch at LANG & HEYNE. Skill and expertise are adopted by our stone setters when they upgrade and crown movement parts, dials and cases with their special touch.



ENAMEL DIALS

Enamel is alive with potential because few other materials give the dial of a fine watch such a rich and charming character. Upon request, LANG & HEYNE can manufacture individual dials in either pristine white or vividly-coloured enamel to elevate your timepiece to the next level.

We conceive and create your dial according to your wishes before milling the design into a metal plate in preparation for enamelling. The intricately milled pits are then lined with fine glass crystals and fired several times in a repetitive process to achieve the even, glossy end result. The colour palette is endless and you can see the result in advance via test fires.



CERAMIC INLAYS

A more eye-catching effect on the dial can be achieved by lining the hands with a ceramic compound to deliver stronger contrast and a more defined look.



CUSTOMIZATIONS



Our most elaborate watch with an individually designed program ring for calculating personal anniversaries and date reminders

AUGUSTUS I

A CALCULATION ARTIST

Inspired by one of our valued clients, Augustus I was initially planned and developed as a special, one-off, masterpiece and now adorns the LANG & HEYNE collection.

With the help of a reminder function and a specially-devised program ring, up to 12 special events and anniversaries are calculated and mechanically displayed for its wearer. The main challenge when designing this watch was arranging the numerous displays while maintaining the elegant dial appearance characteristic of LANG & HEYNE watches. The result speaks for itself.

The modes can be quickly and easily set using the crown and integrated pusher system. The sheer genius of this mechanical calculator and the information it conveys is both fascinating and visually intriguing.



Augustus I with full calendar
Event and age display



Our homage to the St. Wolfgang church tower clock in Glashütte which features a blue outer dial.

HOMAGE

TO THE
GLASHÜTTE CHURCH TOWER CLOCK

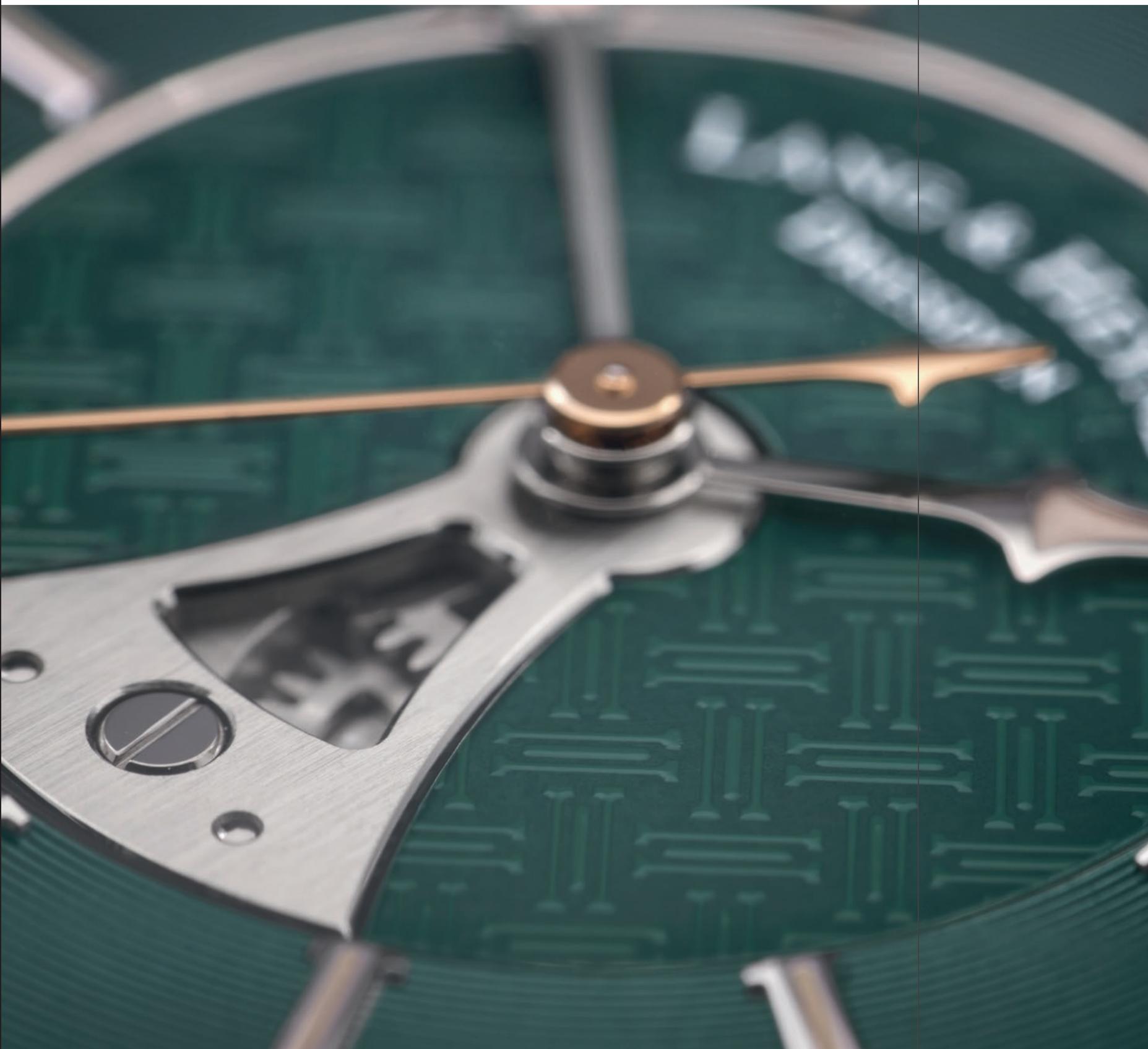
Glashütte's protestant town church, St. Wolfgang, has been rebuilt several times since it was first mentioned in historic documents and represents the longevity and resilience of time in this region. Since 1936 it has housed an attractive tower clock made by renowned clockmaker Zachariä from Leipzig. To this day it consistently and accurately shows the time on its distinctive blue dial set with unique sun and moon hands.

As an homage to the Glashütte tower clock, LANG & HEYNE produced a limited series of five wristwatches which house our hand-wound CALIBER VI and reflect the beauty and individuality of the original clock. The whimsical sun and moon hands and stunning navy blue enamel on gold dial, created using the Champlévé technique, are considered highlights of this highly collectable series.



„Homage to Kirchturmuhre“
Limited to 5 pieces





CONTRAPUNCTUS

The musical term contrapunctus, developed in Italy and France in the 14th century, relates to the compositional technique of adding a melody above or below an existing one. This integrational form of composition later became known as polyphony in the 17th century when music flourished across many European courts.

In a comparable sense, we see an aspect of contrapunctus in our exciting, new horological development - Hektor. As such, this model is designed as a stylish addition to the classic LANG & HEYNE lines and adds to the melody of our overall collection.



Hektor



HEKTOR



FUNCTIONS & FEATURES

Hour, minute and seconds display

DIAL

Forest green, anthracite grey or royal blue polished bevels, signature surface design, grooving under the appliqués, appliqués filled with luminous material, petticoat-shaped, partial skeletonizing revealing a portion of the movement

CASE AND STRAP

Solid stainless steel fine-link bracelet with butterfly clasp, Dimensions without lugs: Diameter: 40 mm, height: 10.95 mm Sapphire crystal and sapphire crystal case back, waterproof up to 5 bar

MOVEMENT

Hand-wound caliber 33.2 (see page 64)

Fresh and modern... LANG & HEYNE's next generation is anything but boring. Our exciting Hektor collection is characterized by a multitude of fine details including the repetition of the 'petticoat' element drawn from classic watch movements. This element is reflected in the shape of the opening on the dial which provides a glimpse of the specially developed, central second, movement that lies within. The full beauty of our newest in-house movement is fully revealed via a generous, sapphire crystal, exhibition case back.

Hektor is limited to 99 pieces worldwide and comes in three elegant dial colours: forest green, anthracite grey and royal blue.



Hektor –
additional information



Stainless steel
royal blue dial



Stainless steel
anthracite grey



Stainless steel
forest green dial



DESIGN IDIOM

Hektor's "petticoat" design language conveys a strong presence that carries through from the movement's architecture and cock design to the subtle dial features and elegant hands. The specially designed, fine-link steel bracelet also adopts the unique motive, carrying the elegant form consistently through each of its links. Another creative design aspect is the stylized "H" for Hektor that can be seen on the hour appliques and in the relief pattern on the inner dial. This feature acts as the collection's signature and denotes not only quality but also authenticity and heritage.

The gently-curving, cushion-shaped crown protection delivers optimal security as well as excellent wearer comfort and pleasing aesthetics. Every aspect of Hektor is balanced, uniform and, like every LANG & HEYNE timepiece, finished to the highest level of watchmaking standards.

CALIBER 33.2

LANG & HEYNE's in-house calibre 33.2 makes its debut in the Hektor collection. A distinguishing feature of this movement is the delicate and open architecture achieved by the use of petticoat-shaped cocks which require minimal space. The flying barrel facilitates an extra flat movement construction and incorporates a purpose-built eccentric balance. Despite this technical refinement, the special balance cock still allows for fine adjustment and visual accessibility. All frame parts and drive wheels are made of Arcap alloy which is known as a robust, non-magnetic material that delivers a special sheen when polished. The flat and turned parts such as shafts, screws and levers are made of durable steel. All in all, caliber 33.2 is a triumph of function and form.



TECHNICAL DETAILS

Diameter	14 ¼ lines (33 mm)
Height:	4.4 mm
Frequency:	21,600 A / h
Running time:	48 hours
Stones:	19 rubies

Shock-proof eccentric balance,
flat spiral, fine adjustment,
stop second, gear train in Arcap alloy



OUR TEAM

Watch connoisseurs, industry experts, seasoned journalists and even well-known industry competitors all attest to LANG & HEYNE's steady rise within the world of premium horology over the preceding twenty years.

Our close-knit team accepts this acknowledgement with joy, humility and appreciation. We understand that skill, experience and knowledge are not gained overnight but are the sum of years of dedication, innovation and striving for perfection. We will continue to forge our place in the watch world through responsibility and commitment, interaction and communication and the constant pushing of boundaries in order to deliver the best time-pieces we can. Although it may seem contradictory to set goals of efficiency and precision, this is exactly what we do. Together we work on distinctive tasks that challenge and unite us as we grow with you into the future.





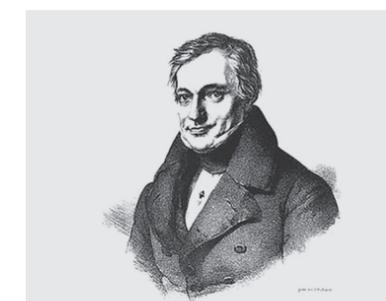
Mathematisch-Physikalischer Salon Dresden -
Royal Cabinet of Mathematical and Physical Instruments in Dresden

OUR HERITAGE

At LANG & HEYNE things such as balance wheels and gears, the ticking of a mechanical timepiece and the gleam of a perfectly polished enamel dial are what fascinate, move and inspire us. Observing and perceiving time in this traditional manner is slowly disappearing in our modern, digitally-driven era as are the related craftsmanship skills that uphold analogue timekeeping. Our catalogue attempts to depict, inform and explain the art of Saxon watchmaking in its most classical sense. By continuing these traditions, it is our hope that classic watchmaking will thrive for years to come. We hope you enjoy learning about this wonderful field of watch creation and share some of our passion for the high art and skill of watchmaking.



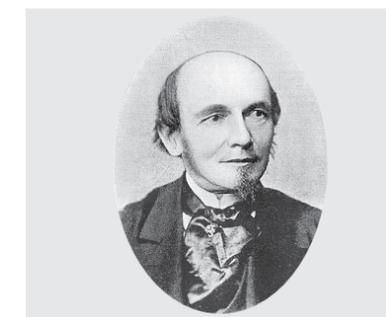
Precision pendulum clock (seconds counter) Johann Gottfried Köhler (1745-1800)



Johann Christian Friedrich Gutkaes (1785 to 1845)



Work No. 71, Dresden, Johann Heinrich Seyffert



Ferdinand Adolf Lange (1815 to 1875) founder of the A. Lange Watch Manufacture Dresden in Glashütte (1845)



Planetary clock built in 1563-1568 for the Saxon Prince-electors by Eberhard Baldewein, Hans Bucher and Hermann Diepel

LANG & HEYNE
DRESDEN

MANUFACTURERS OF FINE WATCHES

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