



Angular Momentum of Switzerland

&

# Manu Propria

"with my own hand"

"15 years ago, I founded Angular Momentum & Manu Propria with the vision to create and manufacture beautiful handmade timepieces, made under inclusion of old technologies and traditional craft with the premise that no single part is made by CNC machines, not depending to suppliers and all working steps from case making to the artwork done with my own hands (Manu Propria)".

Martin Pauli

#### Uniqueness

True luxury is about an understanding of craftmanship, exclusivity and quality. These elements are key to my creations and each and every watch I make remains true to this ethos.

Such commitment has been a cornerstone of my philosophy since the foundation of Angular Momentum & Manu Propria in 1989, as a creator and manufacturer of bespoke and custom made timepieces for private collectors. Today my work is recognized for its exclusivity, its creativity and for its exceptional standards of artistry.

My work is unique by virtue of its approach from the very beginning. All my creations are one-of-a-king pieces. I devote myself to every single piece with passion and enthusiasm and it is a truly magical moment each time I see a completed dial, medallion and watch which is ideeply satisfying.

Indeed it is this dedication to hand craftmanship and to individual design that ensures that every creation is truly unique. As a result each timepiece takes time to evolve, meaning production capacity is obviously limited.

### Verre Églomisé - Miniature Painting

Reverse painting-on-glass, a uniquely difficult and skillful art.

The invention of this new techniqie calls for a blend of passion and precision, patience and ingenuity. Successfully applying it to watchmaking and jewllery implies combining this expertise with keen creativity without restraining the latter. Such an alliance is based on solid foundation and a temporal dimension that is not always perceptible at first glance and which deserves to be explained in detail. This reverse painting, as églomisé is known in English, which is done here backwards on the back side of the sapphire crystal, is a unique, rare, and difficult art that is new to the horological scene.

What makes this particular technique so difficult is the sequence of paint application necessary to achieve it successfully. The resulting painting is actually seen in reverse from the front, so the pigments must be applied opposite to the intended effect, requiring a great deal of imagination, patience, and skill most especially when the painting involves an entire palette of colors.

The technique of Verre Églomisé miniature painting on the reverse of saphire watch crystals has been developed by Martin Pauli in 2004. The technique bases on Aqua Regia oil and pure color pigments. The miniatures made by Martin Pauli are considered some of the finest available on the market today.

### Engraving, Repoussé, Uchi-Dashi

All metal works are executed in my ateliers. I use many different techniques such as classic Engraving, Repoussé, Chasing and Uchi-Dashi a distinctly Japanese process that blurs the distinctions between what is commonly known as Metal "sinking" and metal "raising".



### Shining Beauty of Urushi Lacquer

The deep, shiny luster of black or dark red lacquerware, often gorgeously decorated with gold and silver or inlaid with mother-of-pearl, is a Japanese handicraft form that has long fascinated the world. No other application style can match the deep hues and smoothness of Japanese lacquer (urushi in Japanese). Lacquerware stands as one of the most distinctive forms of Japanese beauty.

Martin Pauli is the only Swiss artisan applying this exceptional art and craft to watchmaking in his atelier in Switzerland. The applied works enclose a wide range of techniques, among them "Takamaki-e" high relief, "Kawari-Nuri" experimental lacquer and "Tamamushi-Nuri" jewel beetle wing mosaic which have never been introduced before to watchmaking

## Watch Case making

All watch parts, cases, crowns, hands, artworks are executed by myself in the atelier in Bern by hand and hand operated machines. A wide range of metals and alloys can be chosen and have been used for case making: All colors of Gold, Platinum, Palladium, Silver, Stainless Steel, Damascus Steel, Iron, Bronze, Brass, German Silver, Shibuichi, Shakudo and Zirconium metal.



#### Historical Watch Movements

All Angular Momentum & Manu Propria timepieces are fit with historical New-Old-Stock movements manufactured between 1950 and 1975 in the "golden Era" of watchmaking by companies like FHF (Fabrique d'Horlogerie Fontainmelon) AS (Adolf Schild SA), Unitas SA which have been merged to the today's ETA SA in the 1980s during the so called "quartz crisis".

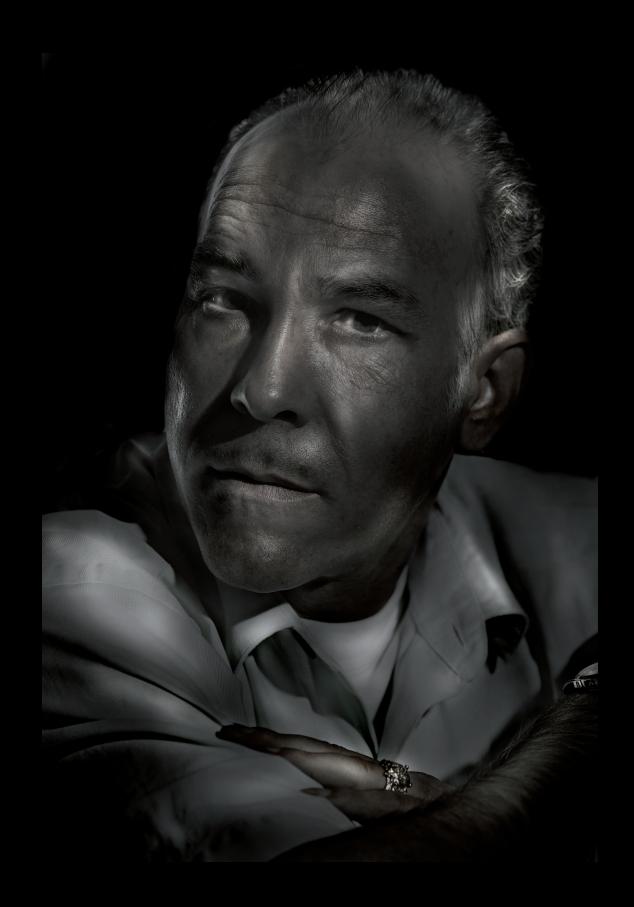
The FHF and AS movements are - though 50 to 70 years old - of excellent quality. Some say even better than today's mass produced movements. All movements have never been used before and are completely overworked, decorated and if necessary modified by myself in the atelier in Bern.

#### Digital Time Display "à Souscription"

Digital Time Display by Revolving-Disk-System (Patent CH989688)

The main advantage of having a miniature painting on the reverse of the watch crystal with an aperture for digital time display is, that there are no watch hands disturbing the miniature picture. Verre Églomisé timepieces show the time digitally through an apperture, by an hour disk à "Souscription" with hour, quarter hour and 5-minute indexes and optionally with a minute disk.

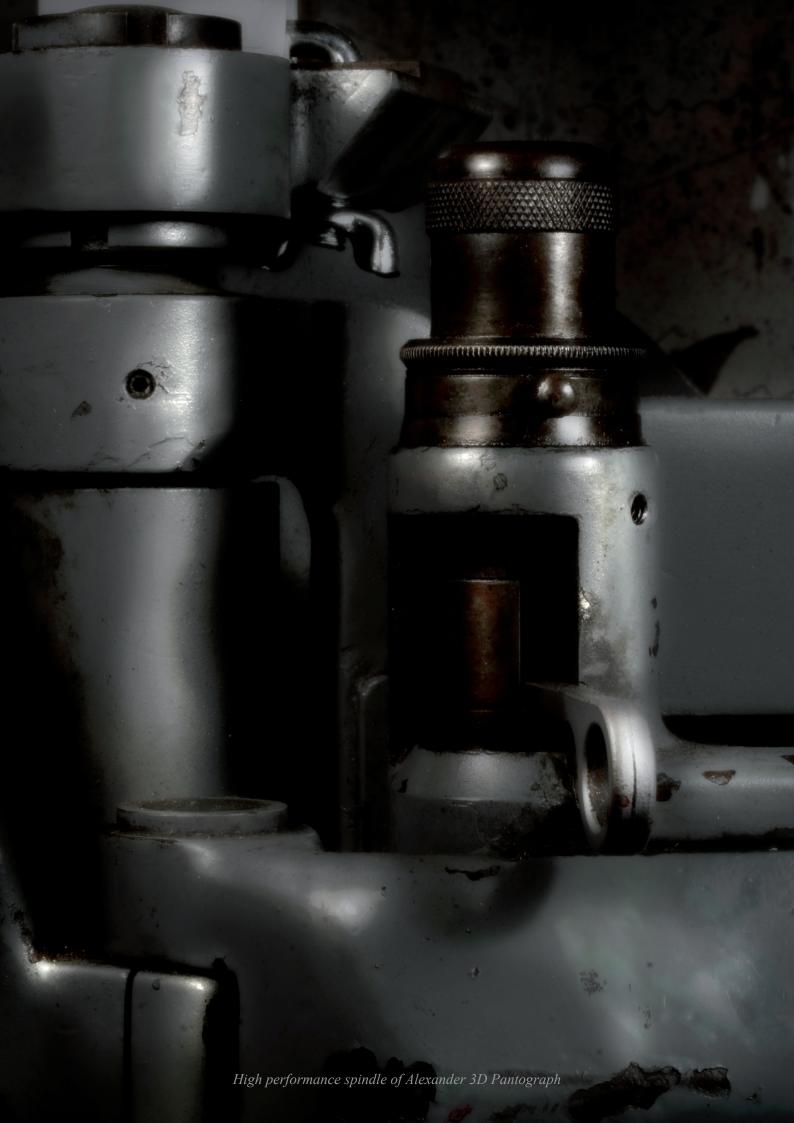
This method is an alternative time reading system without hour and minute hand.



Martin Pauli



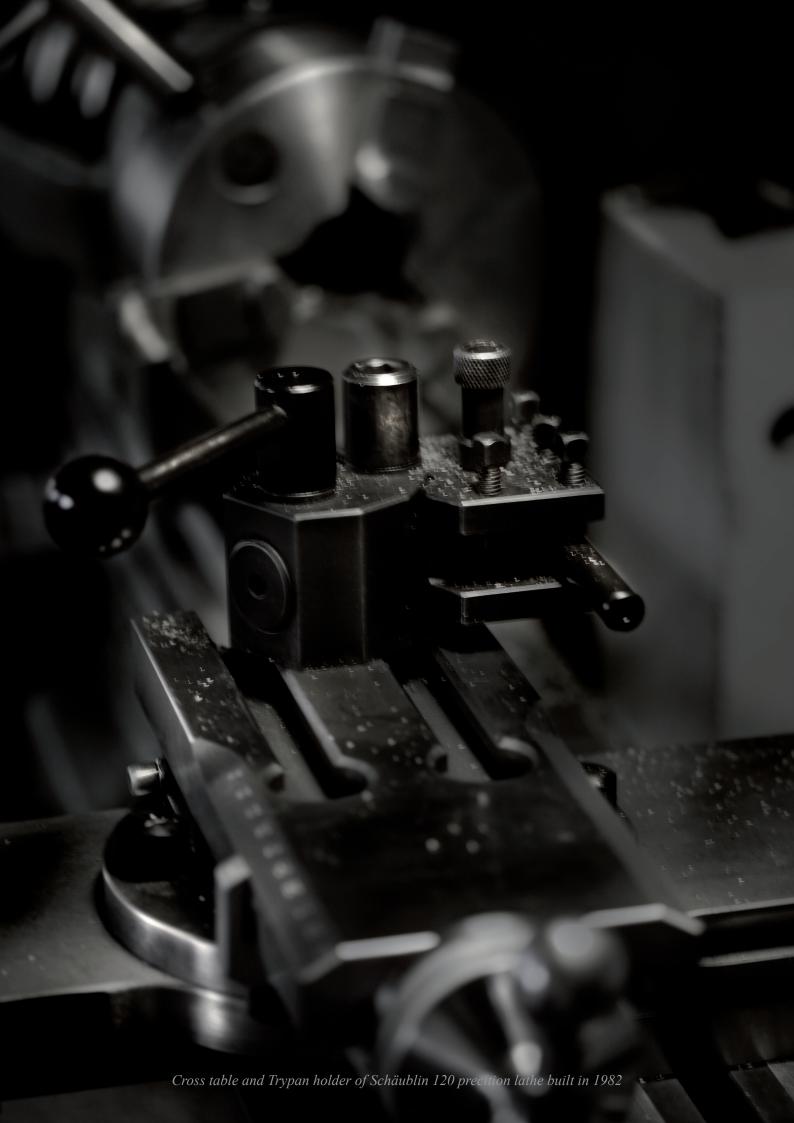


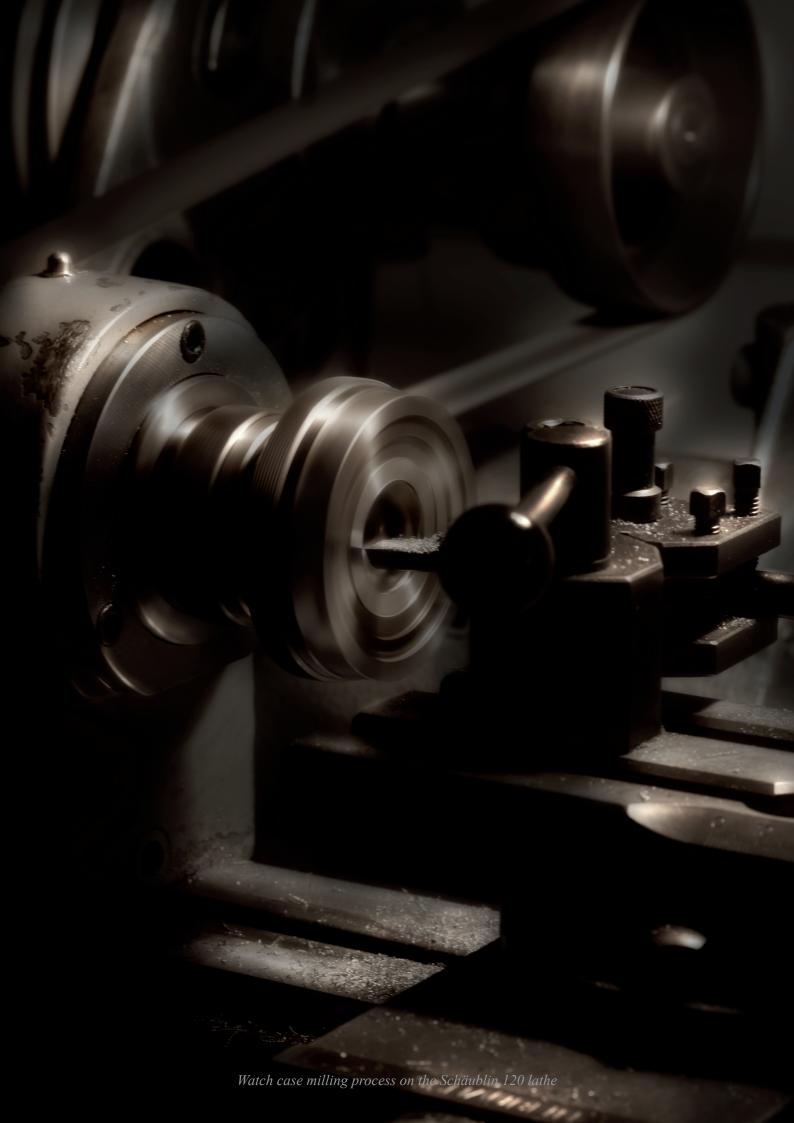


































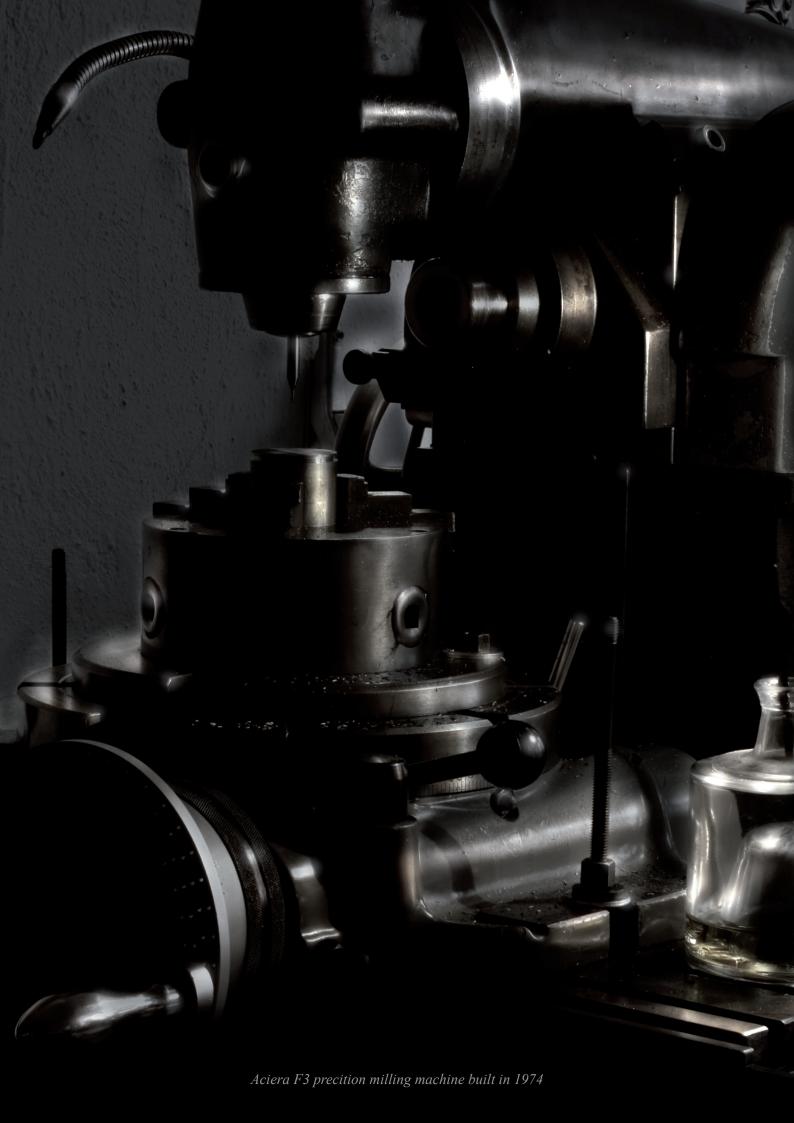


Bespoke watch with JLC Master Control 1000 Hours movement































Verre Églomisé miniature painting on the reverse of a sapphire watch crystal





























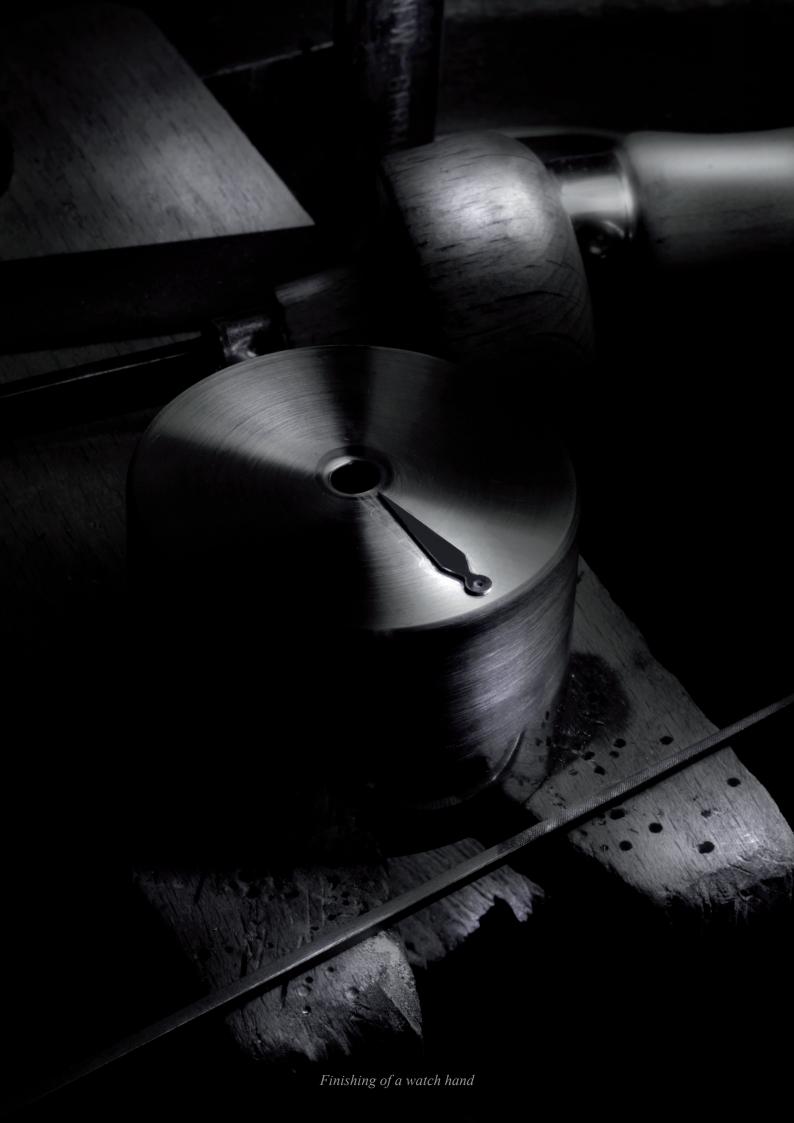






















Alarm movement, caliber AS 1930, manufactured 1969













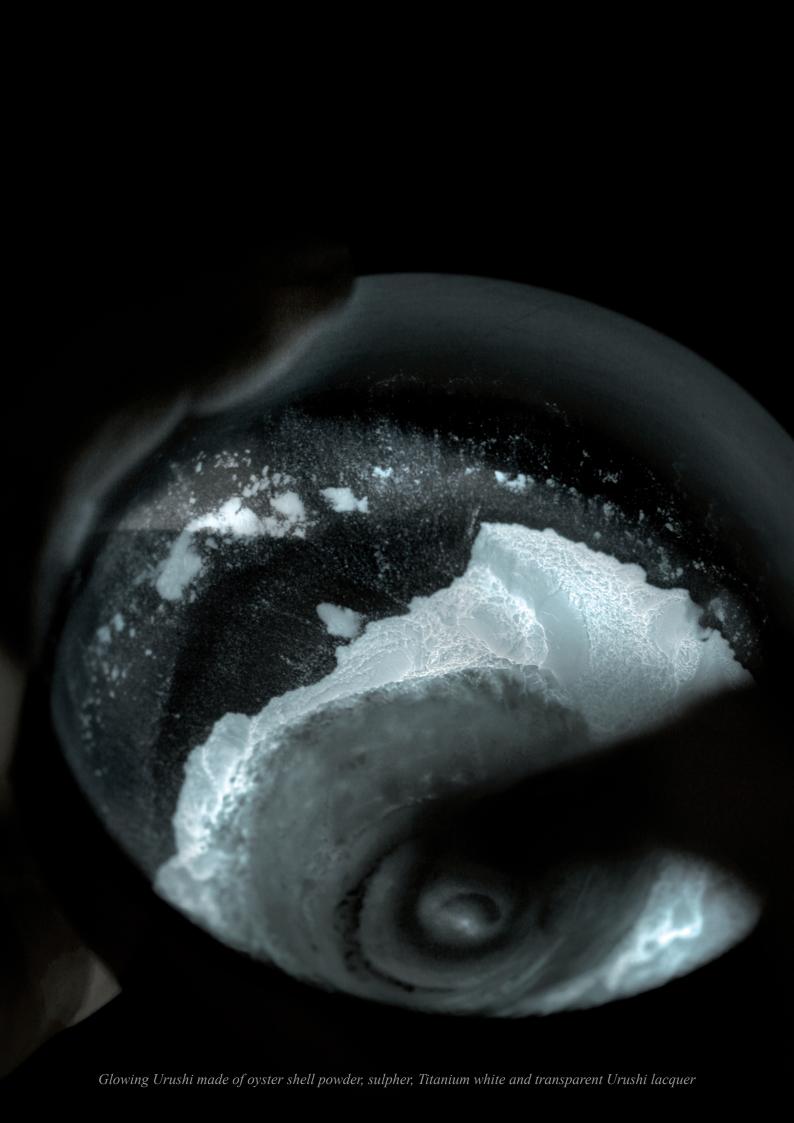














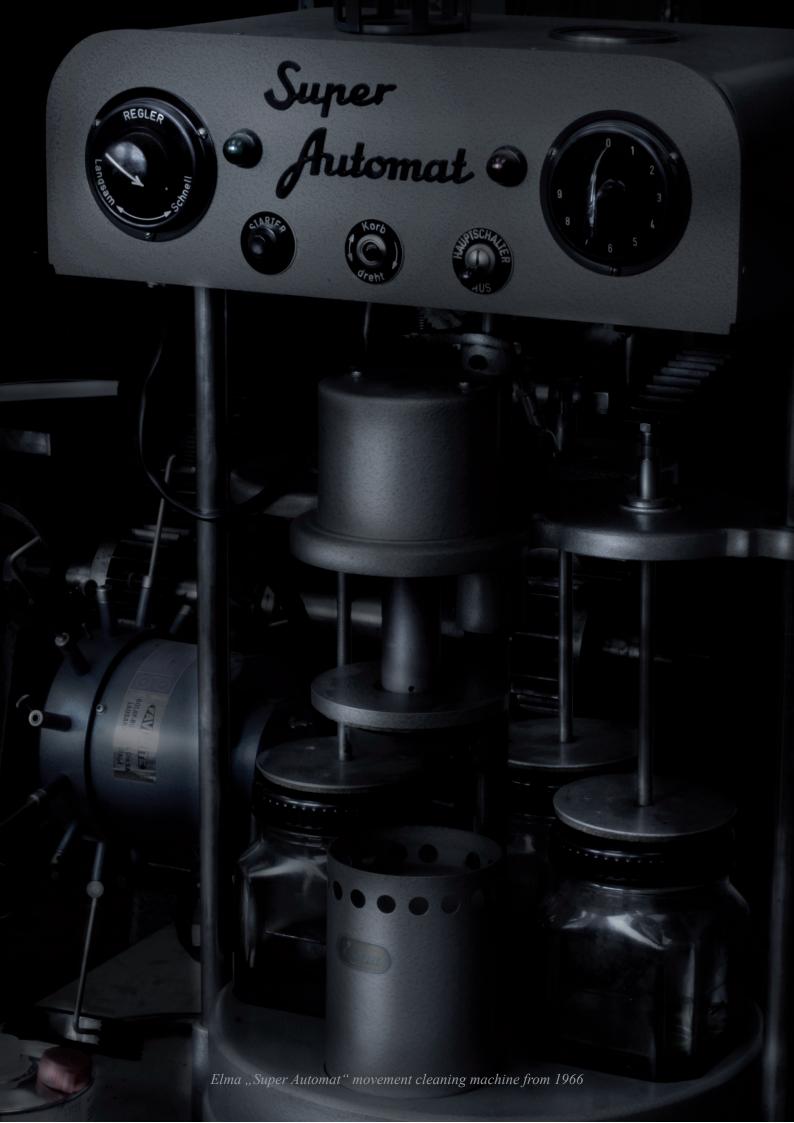
























Objet d'Art Africaine















## 100 views of the Atelier

## The World of Angular Momentum & Manu Propria

- overviews, insights and impressions on Artisan Watchmaking -



Timepieces and images by Martin Pauli