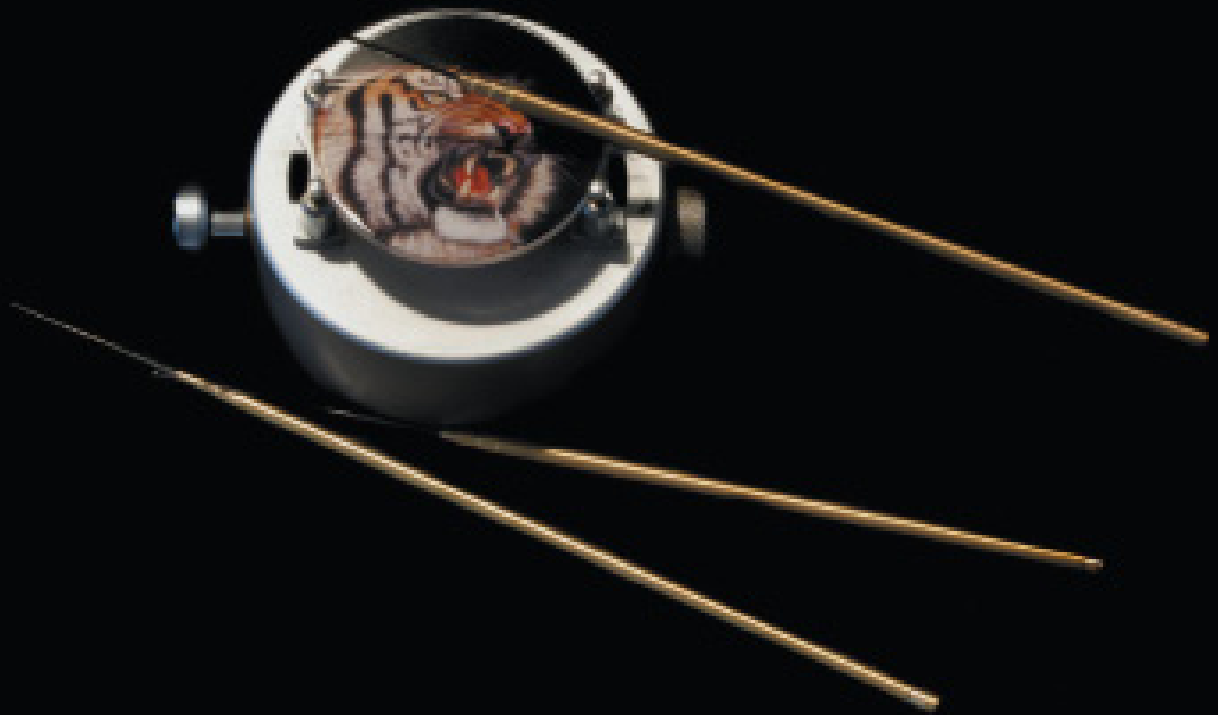


Angular Momentum of Switzerland



Verre Églomisé - Miniature Painting

The Art of Reverse Painting on Sapphire



Verre Églomisé

„Verre Églomisé is a term literally used to describe the art of cold painting and gilding on the reverse of glass.

In 2004, Angular Momentum has developed a technique of painting on the reverse of the sapphire crystal of a timepiece. Angular Momentum is the only company in the world applying this exclusive art.

In a first step, the sapphire crystal has to be cleaned in a hot bath of hydrochloric acid for an hour and heated in a furnace at a temperature of 250° C to remove all organic and metallic remains.

After applying a mirrored black and white picture on the „front side“ of the sapphire crystal, it is set in the working holder with its reverse side up.

A special oily solution is applied to the entire surface.

In a next step, extremely finely ground pure black color pigments are mixed with the same oily solution in a small bowl and applied by a very thin needle, tiny drop by drops to set the dark parts, the graduations from dark to light and the shadows.

This work is made under the microscope by a magnification of 40 times. This is the most important and most crucial work and takes many hours.

After this step is complete, the sapphire crystal is put into a furnace and carefully heated until the oily solution has disappeared and the black pigments are „soldered“ to the sapphire surface.

In following steps, the various colors needed to complete the miniature are applied upon the miniature and heated in the furnace in the same way as the black pigments before.





There are no two identical Verre Églomisé Timepieces in the world.
Every Timepiece, created and manufactured in our ateliers is unique and differs
either in theme, size, material, form or function.

*Create your own personal Timepiece
with a Miniature Painting*

1 Chose your own image and send us some pictures by email or chose one picture from our existing collection from our website.

2 Chose your desired Timepiece

Type: Pocket watch or wrist watch

Material: 1.4435Cnu Staybrite steel, 18 Kt. White, Yellow, Rose, Red Gold

Diamonds: With or without serti pavé or full pavé Top Wesselton VVS brilliants

Movement: Ultra-flat handwinding movement for extra-thin watch case
Mechanical self-winding movement for regular watch case height

Watch Size: Any size between 36.00 mm and 45.00 mm diameter

Watch crown: Any color of cabochon gemstone can be chosen for the crown

Watch back: There are three tipes of watch backs which can be chosen
A closed back with hand engraved AM medallion
B open back with visible movement
C closed back with a miniature painting

3 The customer will receive from Angular Momentum one or a number of computer generated design proposals with price offer including production and delievery time.

4 Customer confirms the order to Angular Momentum.

5 Customer receives order confirmation from Angular Momentum.

6 Angular Momentum starts to manufacture your personal timepiece

7 After a production time of 4 weeks, the timepiece is delivered

„Heures à Souscription“



In 1998, Angular Momentum has invented and patented the „Revolving-Disk-System“, a time display concept which shows the digital time on rotating Disks instead of using hands. This technology is also used on the Verre Églomisé Timepieces.

This technology enables us to create timepieces with miniature paintings without taking into account the disturbing hour and minute hands. A true advantage especially for Timepieces with Portraits.

Wrist Watch Case



Pocket Watch Case





Diamonds & Gemstones

Pavé - Double Pavé - Full Pavé

Case Material



18 Kt. Yellow, Rose, Red, White Gold, Platinum, 1.4435NcU Staybrite Steel

Watch Back



Individual Engraving