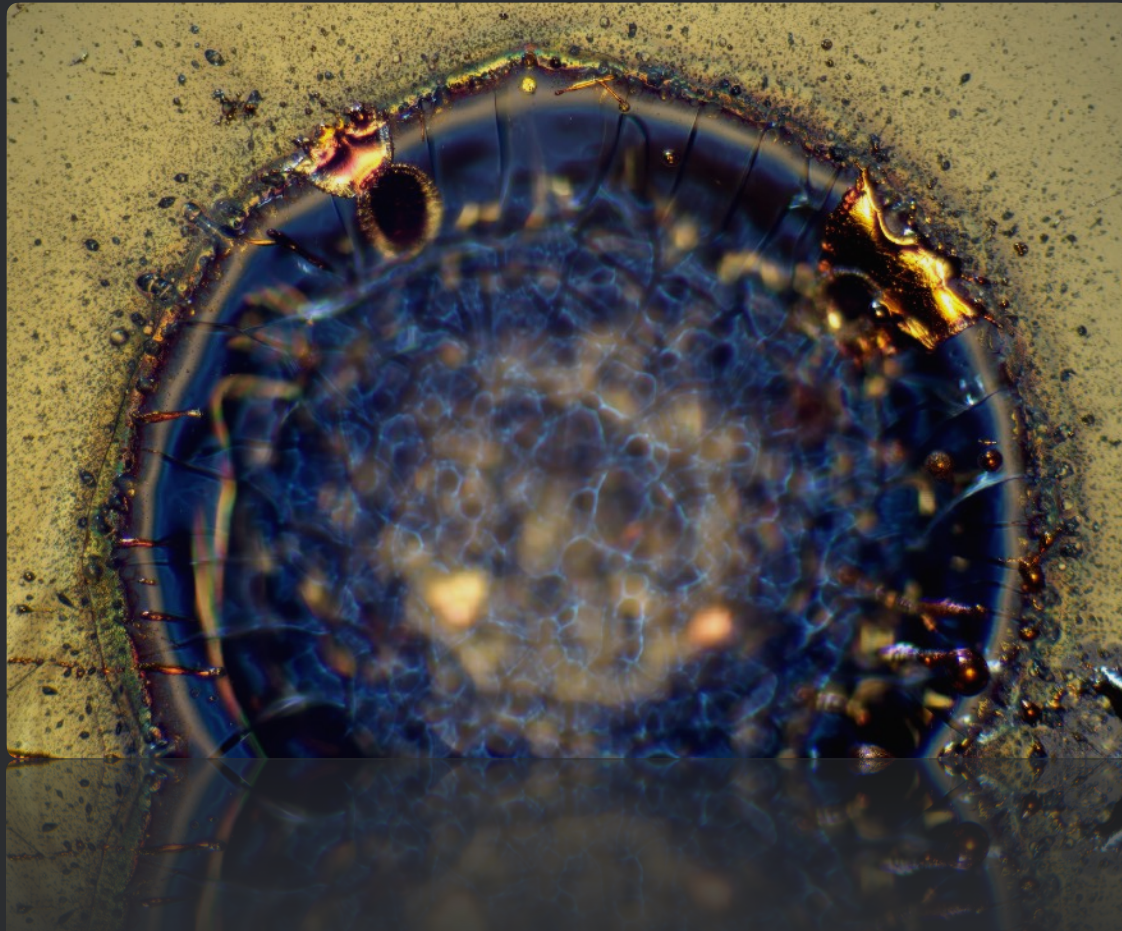


EVOLAS

LASER-Crafted Art

Where light ignites matter.
And matter becomes art.





A New Form of Art

Creating visual art with high-performance industrial lasers as an artistic medium is anything but a conventional approach. Extreme temperatures, high material velocities, and complex interactions with glass give rise to structures of surprising beauty and delicacy. The fascination with this contrast became the foundation of an artistic vision that evolved over many years into EVOLAS.

EVOLAS fundamentally redefines how visual art can be created by transforming high-performance industrial lasers — traditionally used in scientific research and industrial manufacturing — into instruments of artistic expression. High-energy interactions between light, metal, and glass produce intricate physical formations and material structures on and within glass.

„I found I could say things
with color and shapes that I
couldn't say any other way
— things I had no words for.”

*Georgia O'Keeffe, American
modernist painter*

Numerous physical and chemical processes unfold simultaneously, interacting with one another and evolving with extraordinary speed and complexity. The resulting chaos is not merely accepted — it is deliberately sought. The material landscapes that emerge are then explored under the microscope and transformed into distinctive works of art through deliberate artistic choices of perspective, composition, focus, light, and color.

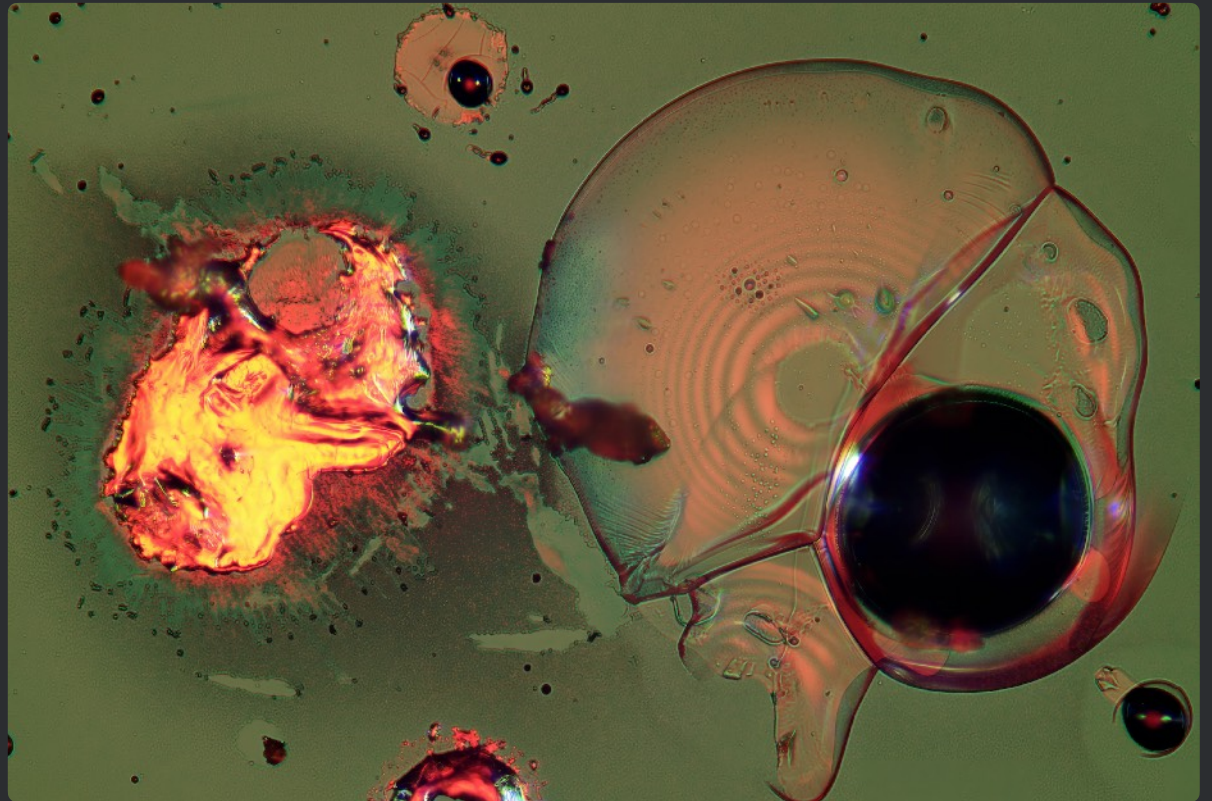
The Fascination of the Process

High-intensity laser pulses expel a mixture of extremely hot vapor and liquid droplets from the metal, accelerating the material to speeds of several hundred kilometers per hour. When this intensely heated material strikes glass, complex interactions occur: some penetrates and fuses with the glass, some is deposited on its surface, while other particles are deflected upon impact. Metallic formations, reaction layers, discolorations, fractures, and micro-cracks together form the material landscape from which EVOLAS artworks emerge.

The creation of these landscapes is a deliberate, iterative artistic process. Metal combinations, their sequence, the number of laser pulses, and the laser parameters are carefully selected to influence the overall character of the material deposition. Each stage is visually assessed, and subsequent processing is adjusted in response to what has already emerged. In this way, the material landscape develops step by step through an interplay of artistic intention, observation, and response.

Microscopic exploration follows. The artist searches for visually compelling compositions, carefully selecting magnification, framing, and orientation. Illumination plays a particularly important role: reflected light, transmitted light, and additional light sources can be varied in color, intensity, and angle of incidence. This reveals different properties of the metal and glass structures, while reflections and refractions of light significantly shape their visual appearance. Color is therefore established during the capture of the motif itself, as an integral part of its artistic presentation.

Subsequent digital refinement serves exclusively to bring out the distinctive aesthetics of the existing structures. No structures are added or removed.

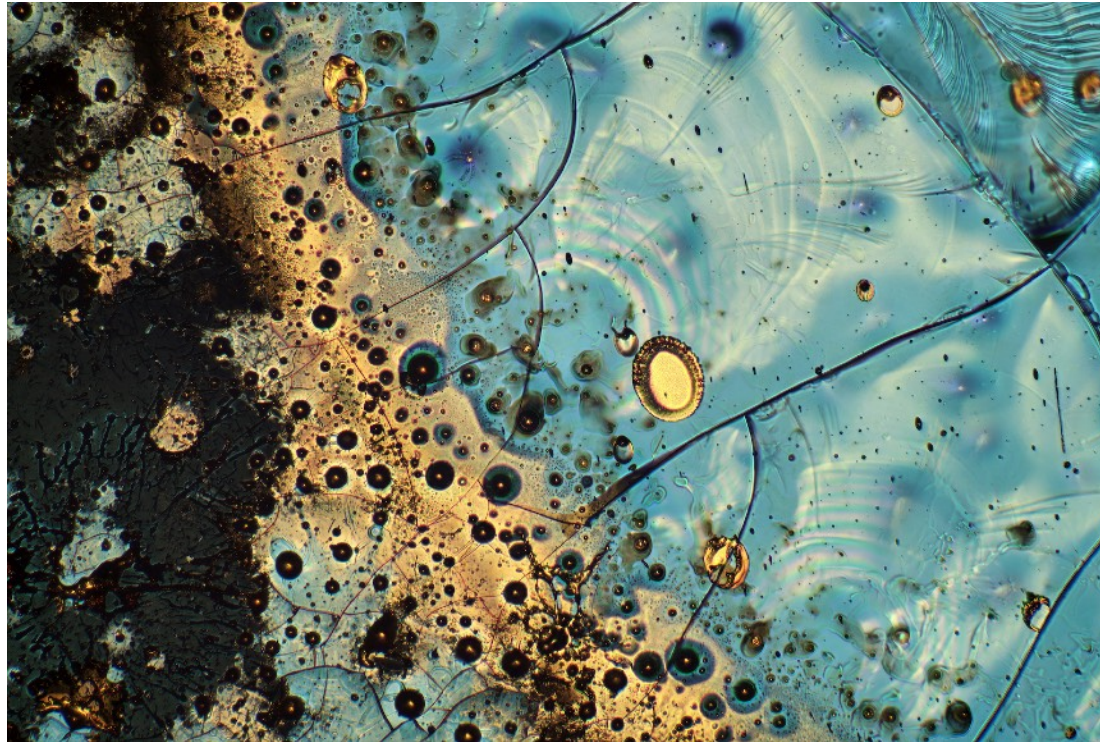


The EVOLAS GLOBE - Where Every Artwork Begins

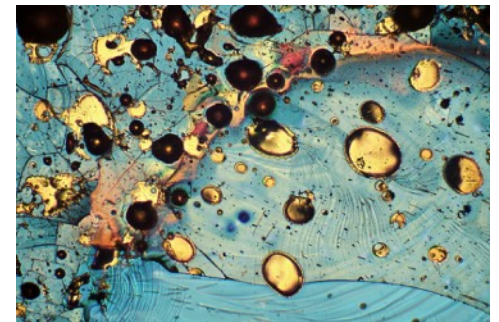
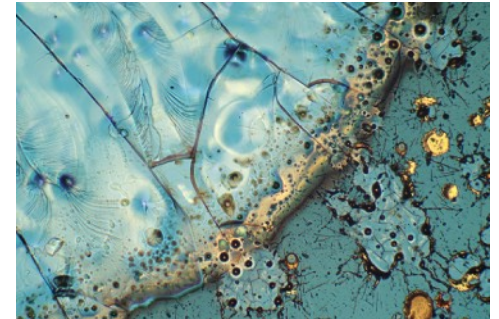
'GLOBE' is an acronym for 'Glass Ornament Base' and refers to the physical glass carrier on and within which the material landscape is preserved. Its metallic formations, particles, reaction layers, fractures, and other structures form the physical foundation from which EVOLAS Motifs are artistically developed.



Physical GLOBE



Main Motif · Place of Transition



Additional Motifs

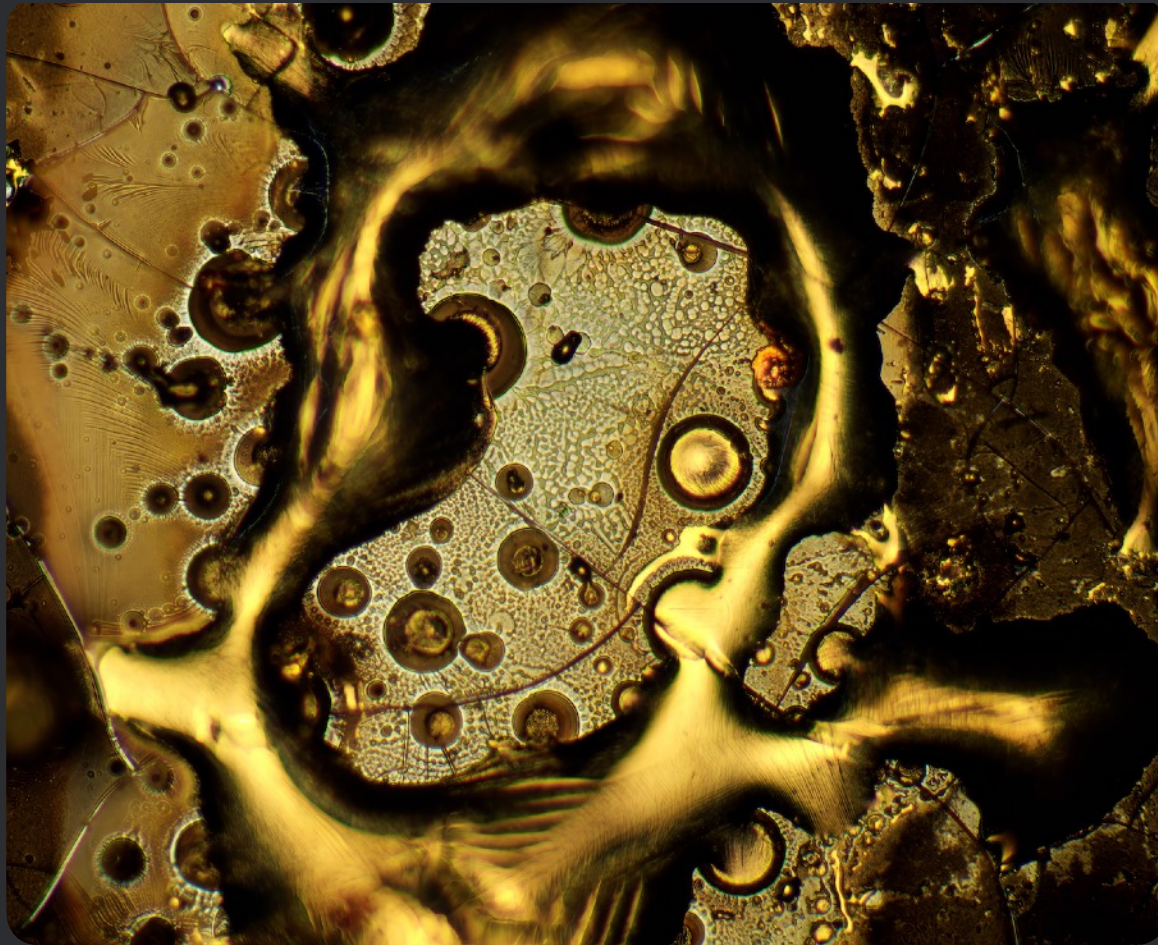
Different areas and magnifications of the same GLOBE can reveal entirely different visual worlds. Their relationship may be immediately apparent or surprisingly subtle. Yet all Motifs share the same physical origin.

For each Main Motif, the Preview Gallery presents nine Additional Motifs from the same GLOBE. Together, they form a family of ten distinct Motifs — each with its own composition, sense of scale, and visual identity.

One Origin. Multiple Artistic Realities.

Each GLOBE contains far more than a single visual composition. Within its material landscape, different areas and magnifications can reveal distinct structures, forms, and visual relationships. Through microscopic exploration, these discoveries become the starting points for artistic interpretation.

Within these material landscapes, surprising similarities to familiar forms, objects, or artistic visual languages emerge time and again. Such associations arise through human perception and inspire distinctive artistic interpretations.



Each GLOBE gives rise to a family of ten Motifs: one fully developed and titled Main Motif, accompanied by nine initially untitled Additional Motifs in its Preview Gallery. Each has its own composition, sense of scale, characteristic structure, and visual identity — all sharing the same physical origin.

„The purpose of art is to make
the invisible visible.”

Paul Klee, German painter

The owner of the Main Motif holds exclusive acquisition rights to the nine Additional Motifs from that GLOBE. Each may subsequently be selected and developed into a complete EVOLAS artwork — including high-resolution image files, an individual Artwork Statement with its interpretation and chosen title, and its own provenance documentation.

Together, these Motifs reveal how a single physical origin can give rise to remarkably different artistic realities — each with its own visual identity, yet connected to the others through the same material landscape.

Artwork, Authenticity, and Ownership

An EVOLAS acquisition extends beyond the artwork itself. Each individual artwork instance is embedded in a comprehensive framework combining high-quality master files, documented physical and artistic origin, cryptographic file verification, individual certification, and blockchain-based provenance. The owner of the Main Motif additionally holds exclusive acquisition rights to the nine Additional Motifs associated with its GLOBE.

The Artwork

Each acquired artwork instance includes two high-quality 16-bit master files: the native-resolution master and a professionally upscaled master at twice the width and height. Together, they preserve the artwork in its original digital quality while providing a high-resolution basis for professional realization at larger scales.

Authentication & Documentation

Each individual artwork instance is accompanied by a Certificate of Authenticity documenting its identity, edition number, associated GLOBE, delivered master files, and their individual SHA-256 cryptographic hashes. These digital fingerprints allow the integrity and identity of the exact files delivered by EVOLAS to be verified at any time.

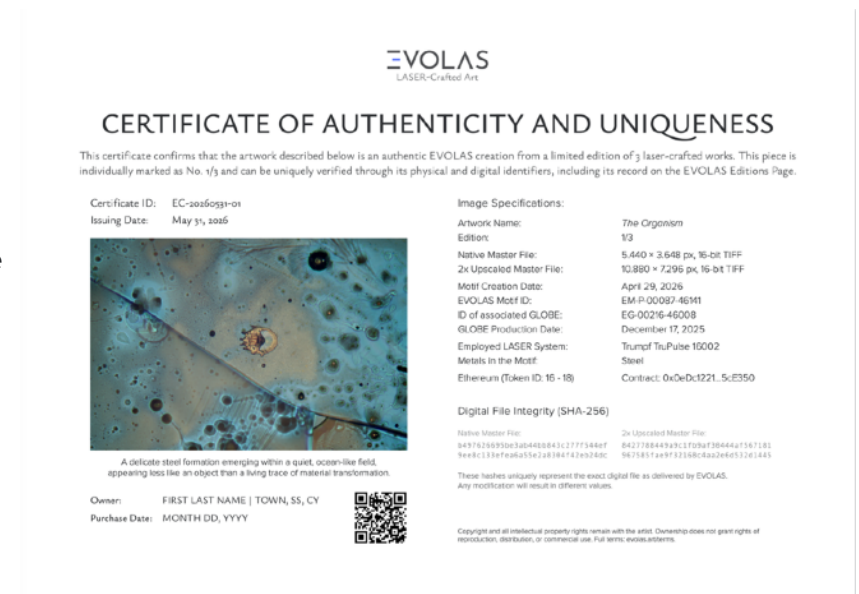
A GLOBE-specific Creation Dossier documents the physical and artistic creation process from which the artwork originates. The Motif-specific Artwork Statement provides its artistic interpretation and context.

Provenance & Ownership

A uniquely identifiable blockchain-based NFT provides an additional verifiable provenance and ownership record for each artwork instance. The underlying technology serves the artwork — not the other way around.

Preview Gallery & Exclusive Acquisition Rights

The Preview Gallery presents the nine Additional Motifs associated with the same GLOBE and is available for review before acquisition of the Main Motif. Once the Main Motif is acquired, its owner holds the exclusive right to acquire any of these nine Additional Motifs.



From Microscopic Origin to Spatial Presence

EVOLAS artworks originate in microscopic structures. Their artistic destination, however, lies in spatial presence. Complex structures, distinctive visual identities, and an extraordinary richness of detail allow them to make an impact at different scales — from small-format presentations to large-scale installations in architectural spaces.

When an EVOLAS artwork enters a real-world environment, its perception changes through scale, viewing distance, light, materials, and architecture. Microscopic details can become powerful visual elements, while new relationships emerge between the artwork and its spatial surroundings.

The high-resolution master files preserve the artwork in its established composition and provide the foundation for high-quality physical presentation at different sizes. In architectural environments, this transition from microscopic origin to spatial presence can reveal entirely new relationships between artwork, space, light, and material.



Discover EVOLAS

Explore the works, their physical origins, Preview Galleries, Artwork Statements, and further information at evolas.art.

For acquisitions, collaborations, or further information, EVOLAS welcomes direct contact.

About EVOLAS

EVOLAS pioneers the use of high-performance industrial lasers as instruments of artistic creation — repurposing technology developed for precision manufacturing to create physical material landscapes from which visual artworks emerge.

EVOLAS' scientific origins reach back to early research at the Institut für Strahlwerkzeuge (IFSW) at the University of Stuttgart — a field revisited many years later from an entirely different, artistic perspective.

The Name EVOLAS

EVOLAS combines the Latin verb evolare — to fly away, fly forth, or rush out, reflecting the ejection of hot metal during the laser process — with the first letters of LASER. The name unites the physical dynamics of the process with the exploration of new artistic territory through laser technology.

