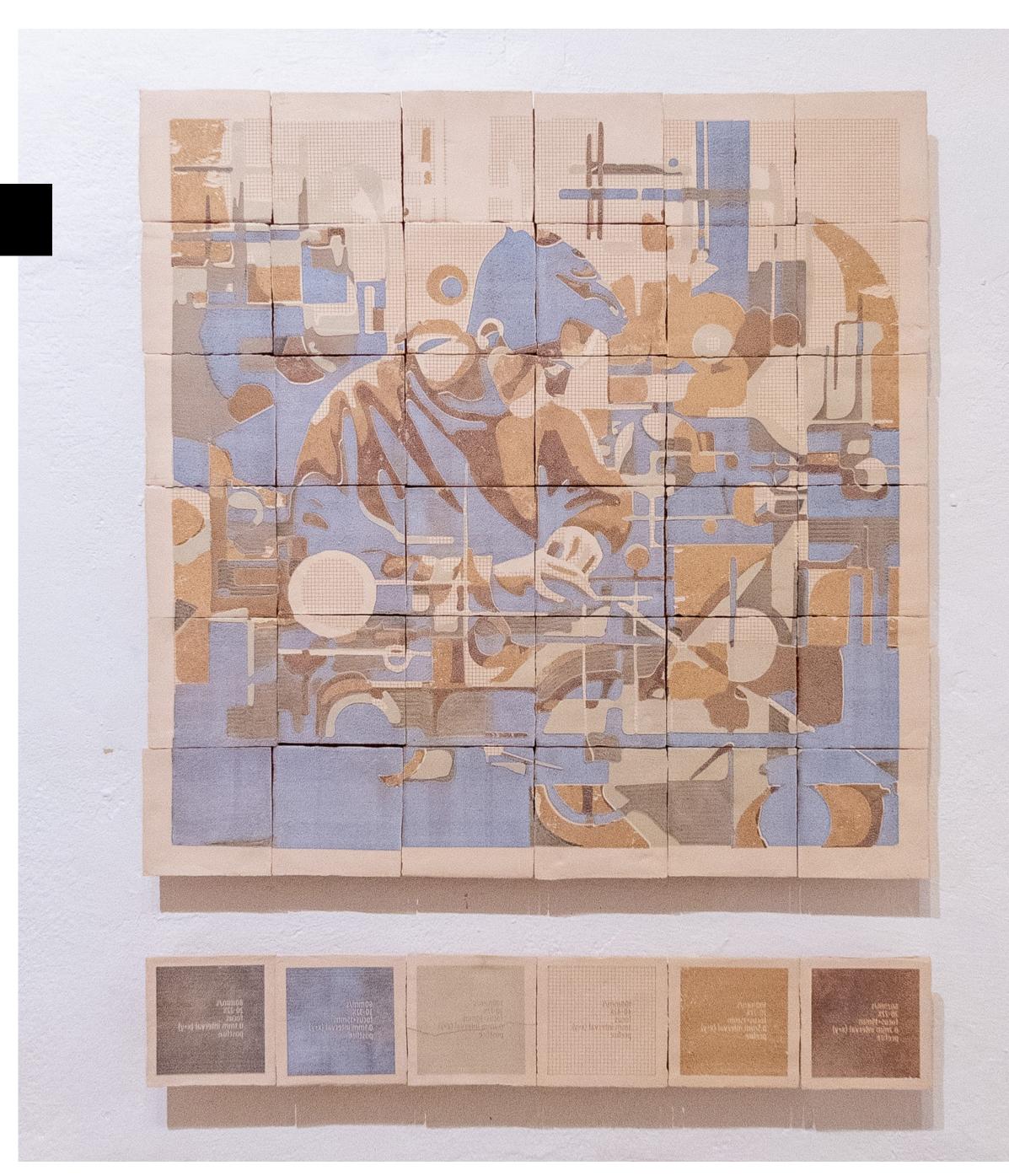
THE CRAFT OF CRAFTING

an exploration of Digital Craftsmanship

Yarden Amir 2023





ABSTRACT

between The main question of heavily on pre-industrial the evaluation to pre-digital processes?

the intersection of the old this development I was

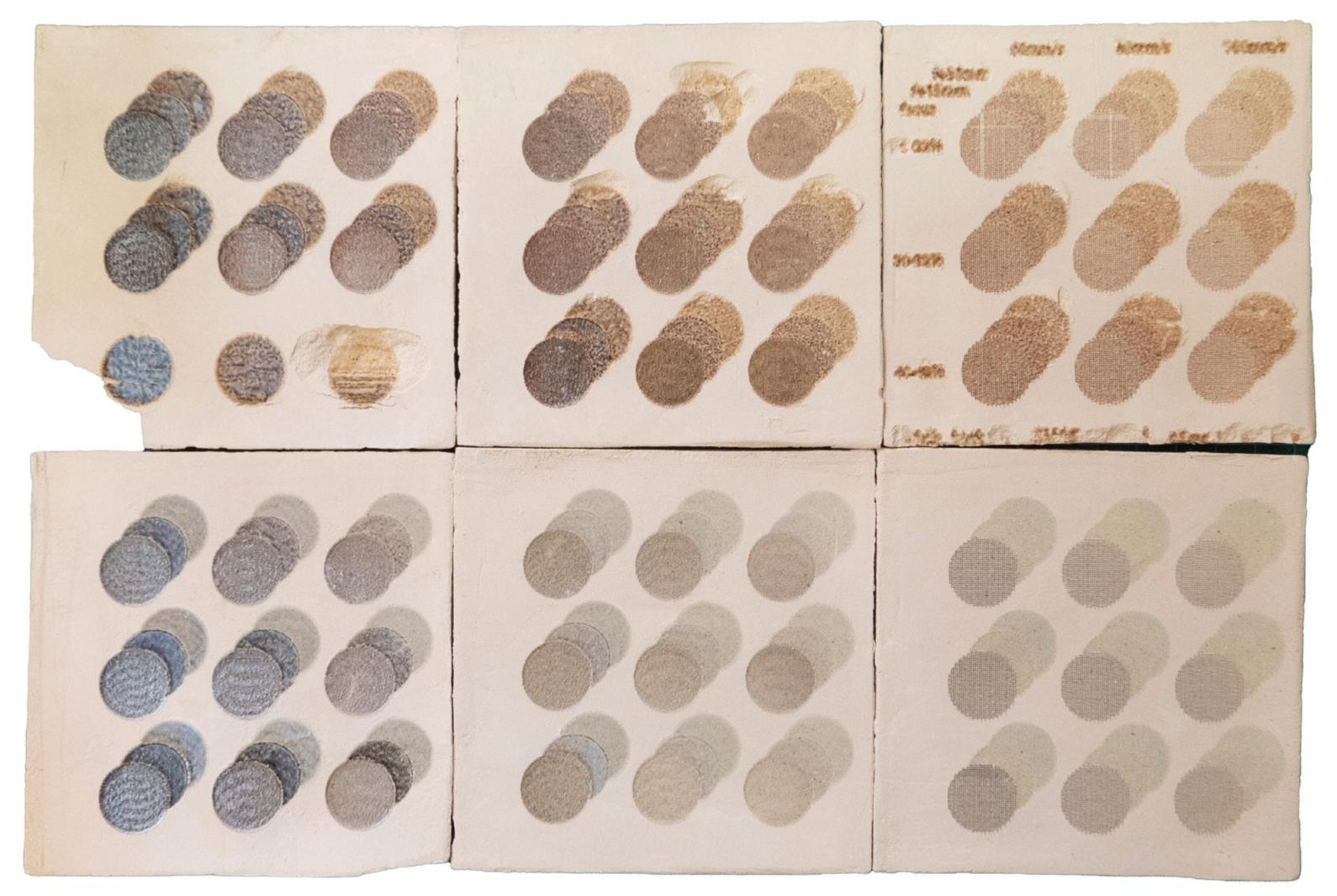
The works in this craft world and the new. required to understand the document are the product On the one hand, ceramic physical processes that of my thesis for Bezalal crafts are some of the occur during the firing Academy's MDes program most ancient known to of ceramic materials, the in Industrial Design. For man; ceramic material characteristics of different my research I explored itself has changed very ceramic materials, as the measure of continuity little throughout history, well as the means in traditional and contemporary ceramic which a laser etching and novel digital crafts. techniques still rely machine operates. my research was: Is it technology. On the other Ultimately, observing the possible to design and hand, laser etching is process of development fabricate items within only several decades old, afforded insight into digital means, such that wherein only in recent the evaluation of they are then evaluated years has it become digital craftsmanship in a way that is similiar available to the vast public. and the association of this evaluation to that of items created by Within the framework of the craft practices of this research **I** of the old world. This developed a means to association manifests In order to test this **glaze ceramic material** itself in several issues key query I focused on in a selective manner. to the understanding of the intersection of Specifically, I discovered craft, such as: labour and ceramic materials and that the power of the the latency of production, the technology of laser laser etching machine is the intimate relationship etching. Not only does such that it can turn the between a craftsperson this intersection result in ceramic material itself - and his materials, and interesting products from which organically contains the means in which a a design perspective, it the necessary materials craftsperson applies the also intuitively represents - into a glaze. To reach knowledge of his craft.

SM0.5 test plates

Each tile contains a matrix of different etching values across three parametrical axes: speed, power, and focus.

The comparison of the tiles represents a 4th axis, that of the density of the hatch of each circle.

Finally, the 2 rows are identical in their etching parameters, the difference being that the top row was etched pre-firing, while the bottom row was etched post bisque firing.



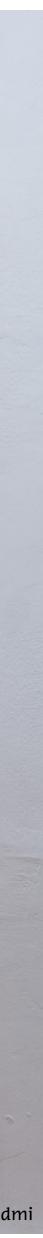
AZULEJO

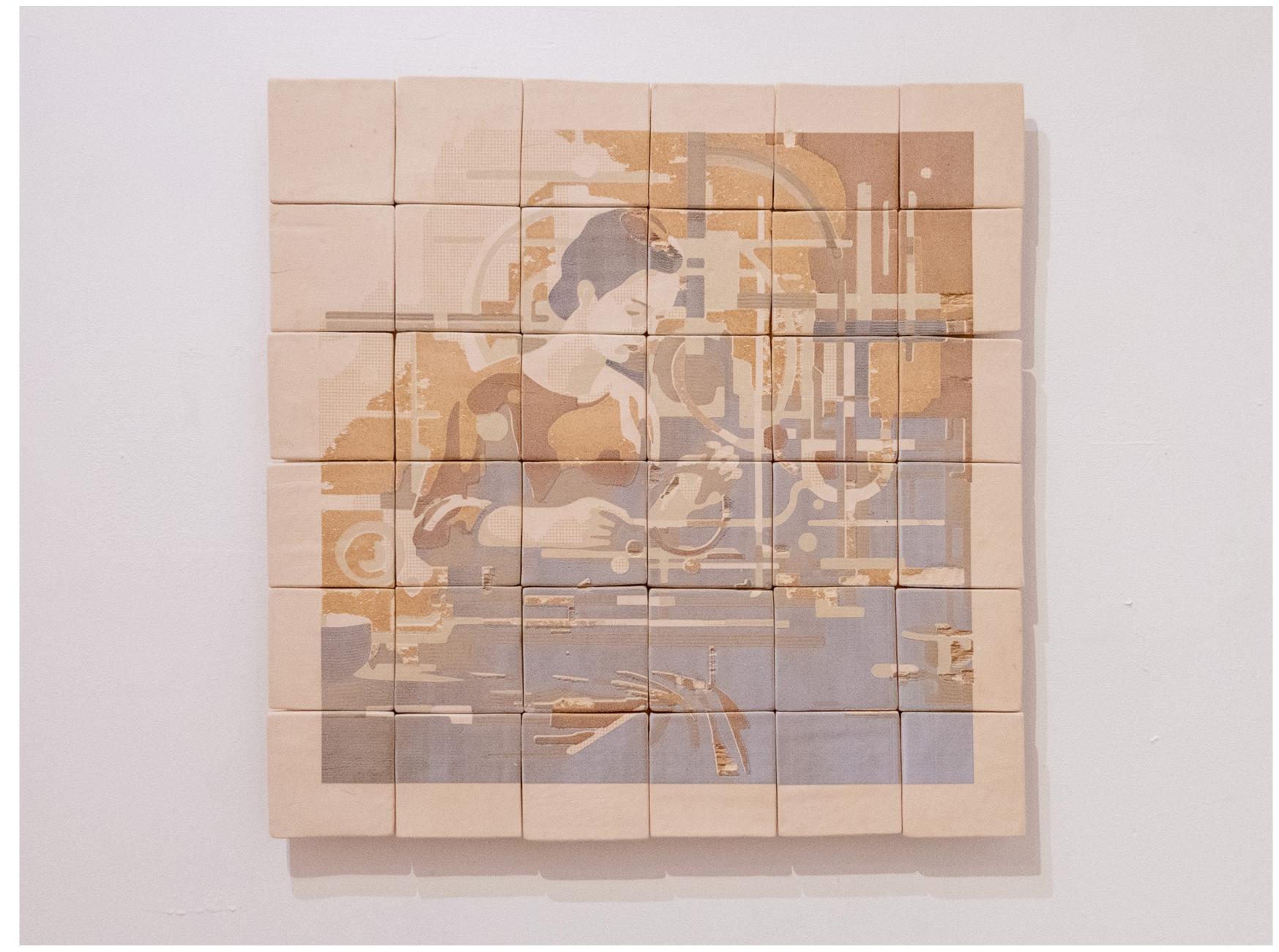
Azulejo have been associated with the city of Lisbon since early modernity. They were introduced as early as the middle ages, but their status was cemented following the earthquake of 1755; after the destruction of the city the ceramics and tiling industry served as a convenient means of rapid reconstruction, and therefore was widely used. Ever since, the azulejo have been synonymous with the name Lisbon.

As these wall tiles historically communicate a cultural identity, I deemed it fit to use this medium to communicate the imagined identities of digital craftspeople. As traditional azulejo were used to display scenes of local industry, so do my wall tiles serve to tell the tale of my own creative environment. I used the Midjourney generative model to imagine depictions of digital labour, in a style that I preconceived.

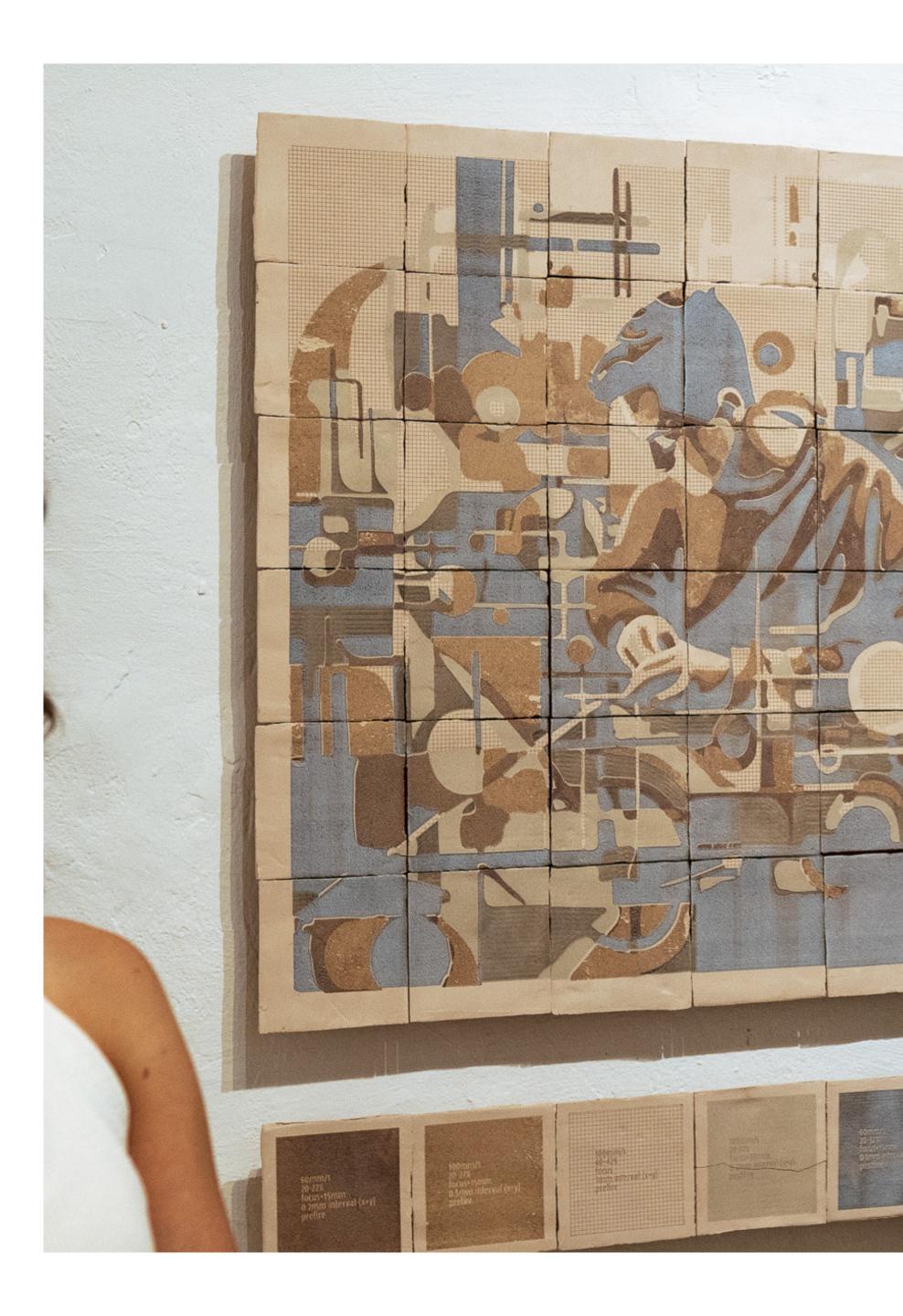
The etching was done on tiles of SM0.5 and SM0.2. In each instance the tiles were etched all together, twice: pre- and post-firing. The etching values are represented under the image of the young adult operating a soldering iron. 🕨







A woman operating a 3D printer 64x64cm Laser etching on SM0.2



Yarden Amir The Craft of Crafting

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Photo: Niv Vaknin

CHINA ISRAEL

While designing these porcelain dishes I chose to look at traditional linglong pottery and the popular symbolism that they communicate. I asked the question: What would linglong pottery look like if it tried to communicate local Israeli motifs? In response to this question I was drawn to the iconography of the byblical Seven Species, and of them specifically the ear of wheat as a symbol of prosperity.

Again, I used Midjourney to imagine what these porcelain wares would look like, and I etched these patterns with the laser, using cobalt pigment to accentuate some of the patterns. Because of the multitude of items in this collection, I opted to display the different stages of production by leaving some of the wares unpigmented or able to encode the material even unglazed.

I believe that the object that is evaluated porcelain material itself, as being 'handmade'. In since its value is very this particular instance, much derived from the I believe that if I had not historically traditions that surround behind these pieces, the it, inherently transfers a value of the digital aspect sense of craftsmanship to of production would most items made from it. have gone completely Therefore you might be unnoticed.

with any message, and ultimately create an isoteric stated the digital process







Saucer 14cm diameter Laser etching on porcelain (unglazed and unpigmented)



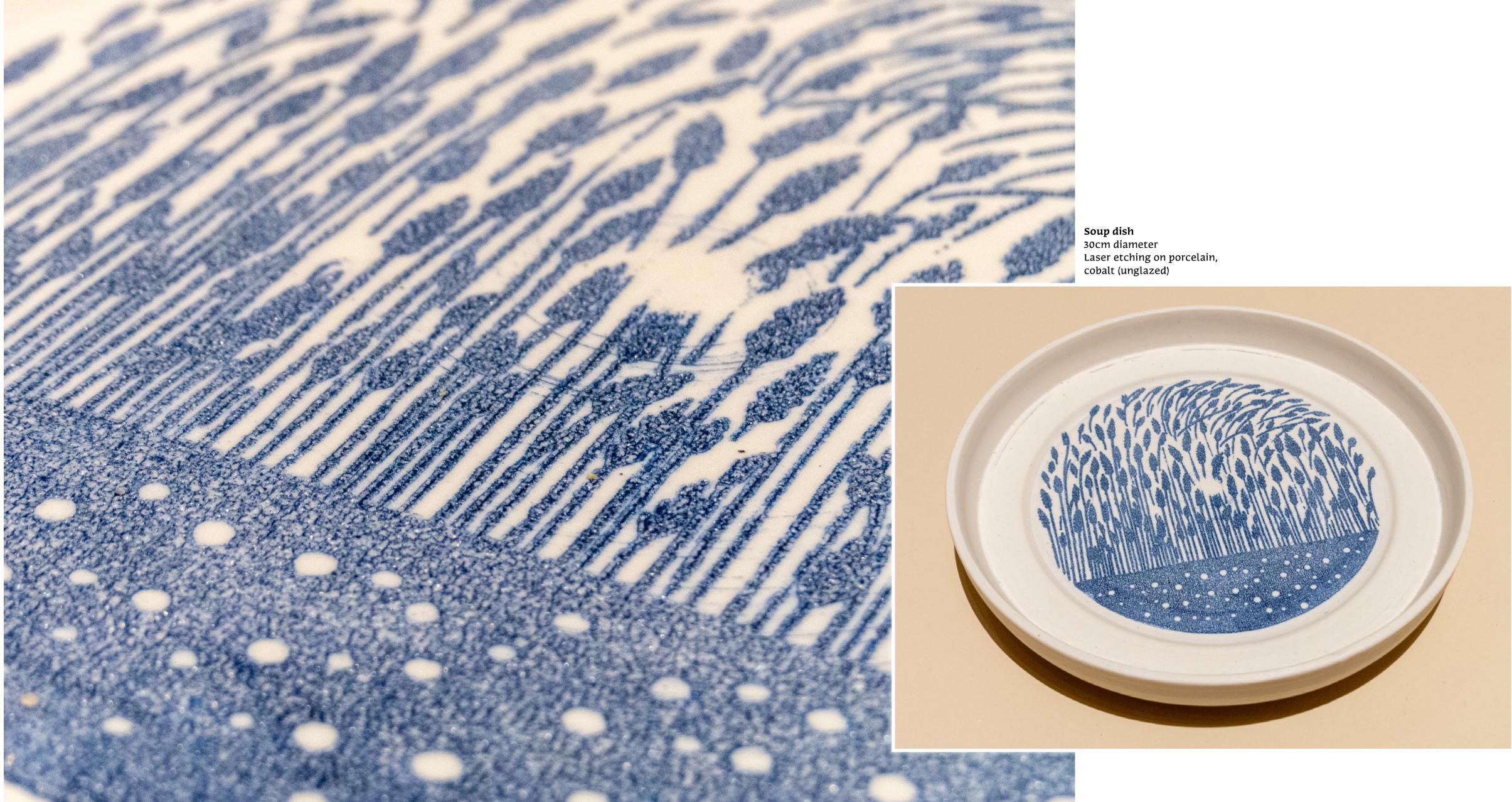




Photo: Niv Vaknin



Mugs (top) 8cm diameter x 10cm Laser etching on porcelain, cobalt, clear glaze

Teacup (bottom) 9cm diameter x 4cm Laser etching on porcelain, cobalt, clear glaze

UNTITLED

For me the most interesting characteristic of terracotta is the continuity and the ubiquitous nature of its use throughout human history. I wanted to celebrate this aspect of the material by designing a centerpiece, and it seemed wholly fitting to choose the household planter as the building block for this piece because of its iconics shape and immediate recognizability.

Because the piece seeks to convey a sense of craftsmanship, as I approached the design process I aspired to make something that is as visually appealing up close as it is far away, something that would draw the observer into a close, intimate relationship with it.

I used a parametric design process to plan the gradient nature of the statue, laser etched each individual planter, and set them in a vertical hierarchy with the darkest planter being at the bottom. This hierarchy serves as a juxtaposition between the material and the craft itself, seemingly elevating the terracotta above the technology used to decorate it. However, were the planters not crafted, this perceived elevation of the material would not exist. >

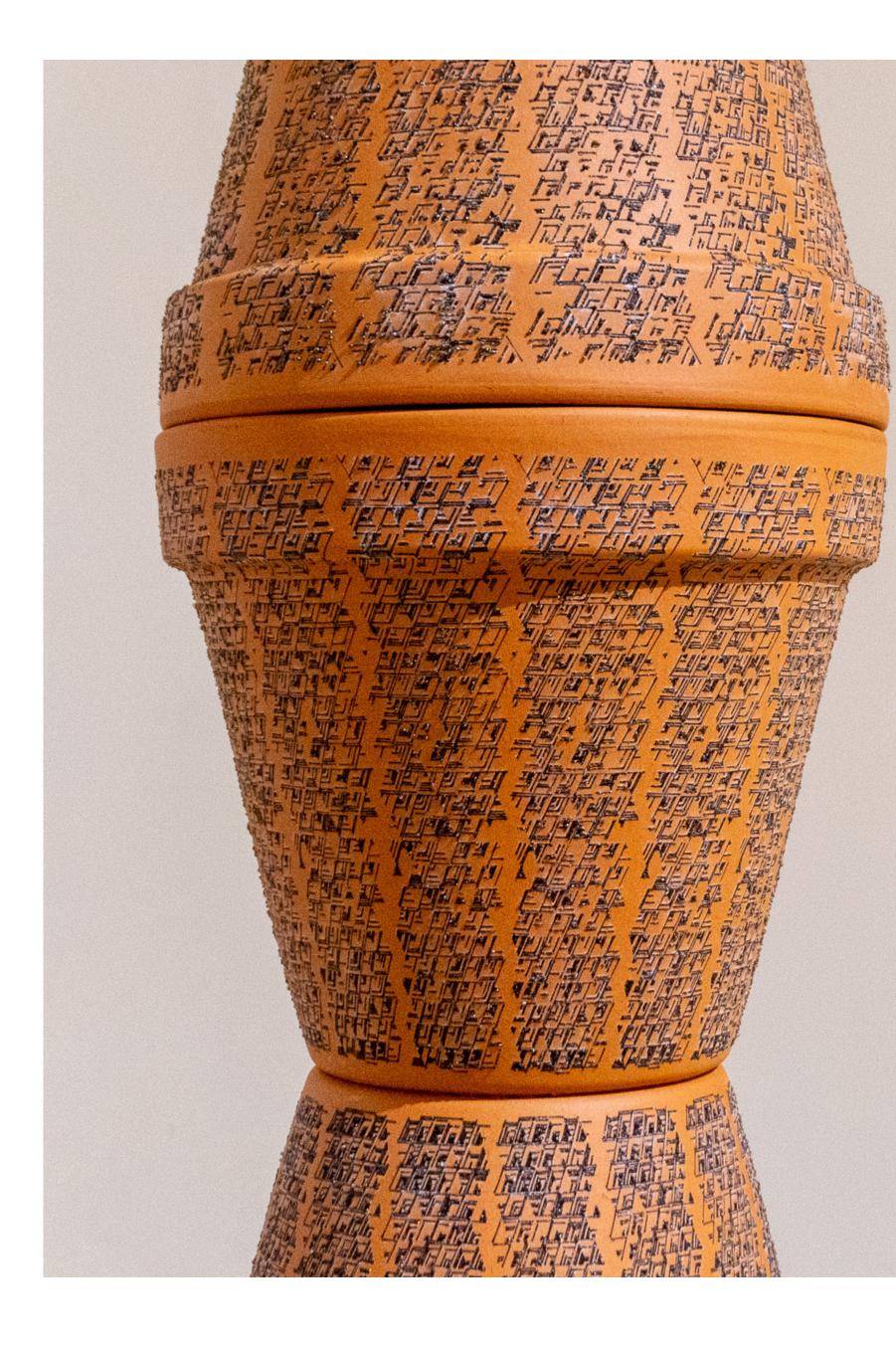






Photo: Dor Kedmi

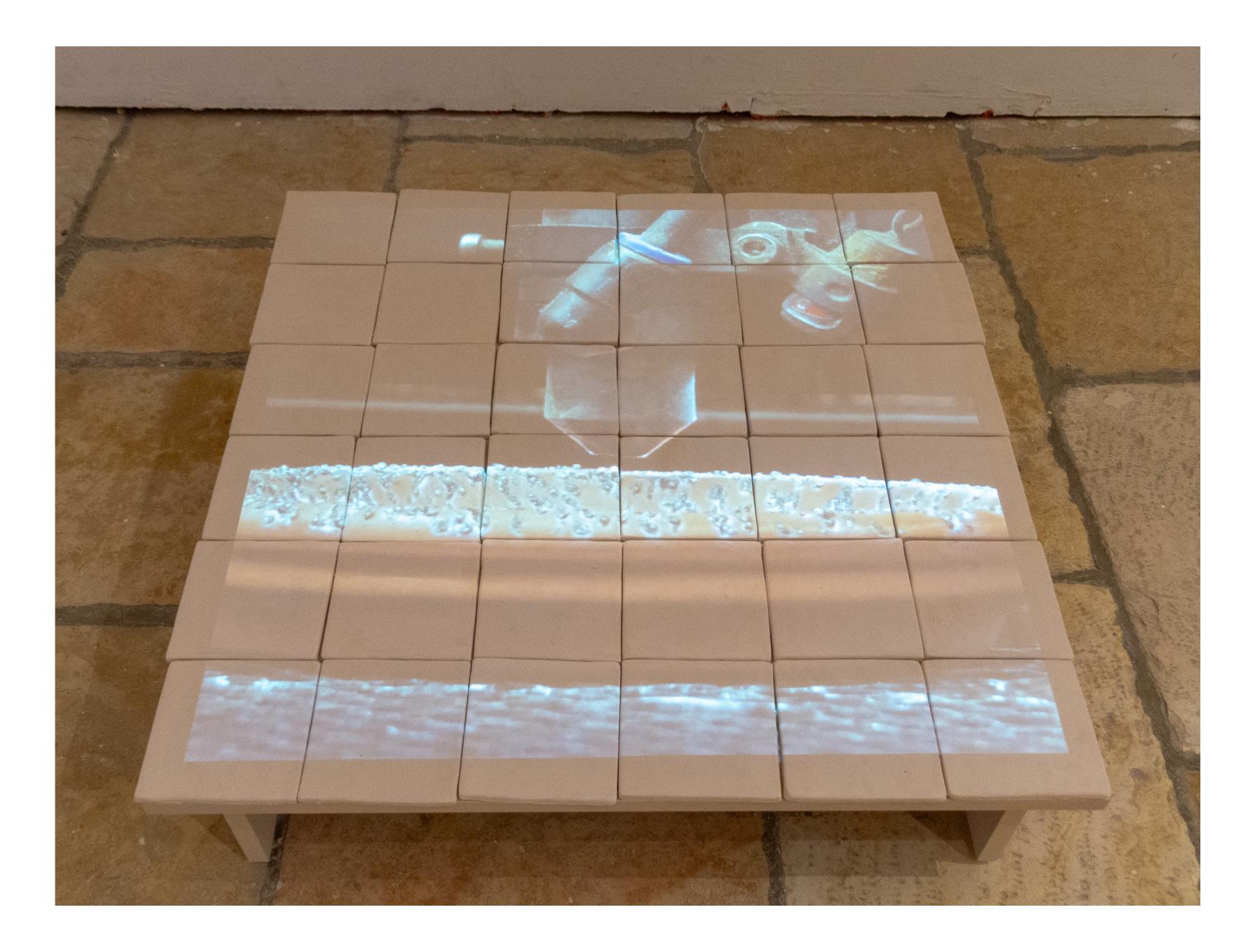


VIDEO

As an appendix to the material pieces displayed in the exhibit, I also presented a video that displayed certain parts of the process tha happens within the laser etching machine. The video is not meant to convey any real technical understanding of the process, but rather to expose the viewer to some of the graceful moments that come to life while using the laser.

The video was projected ontoatiled surface the size of the azulejo displayed next to it, in order to create a parallel between the projection of the video onto the floor and the 'projection' of the laser inside the machine itself.

<u>Link to Vimeo</u>





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