

# MOLD MAKING IN TUNISIA

COMPETENCE • KNOWHOW • QUALITY



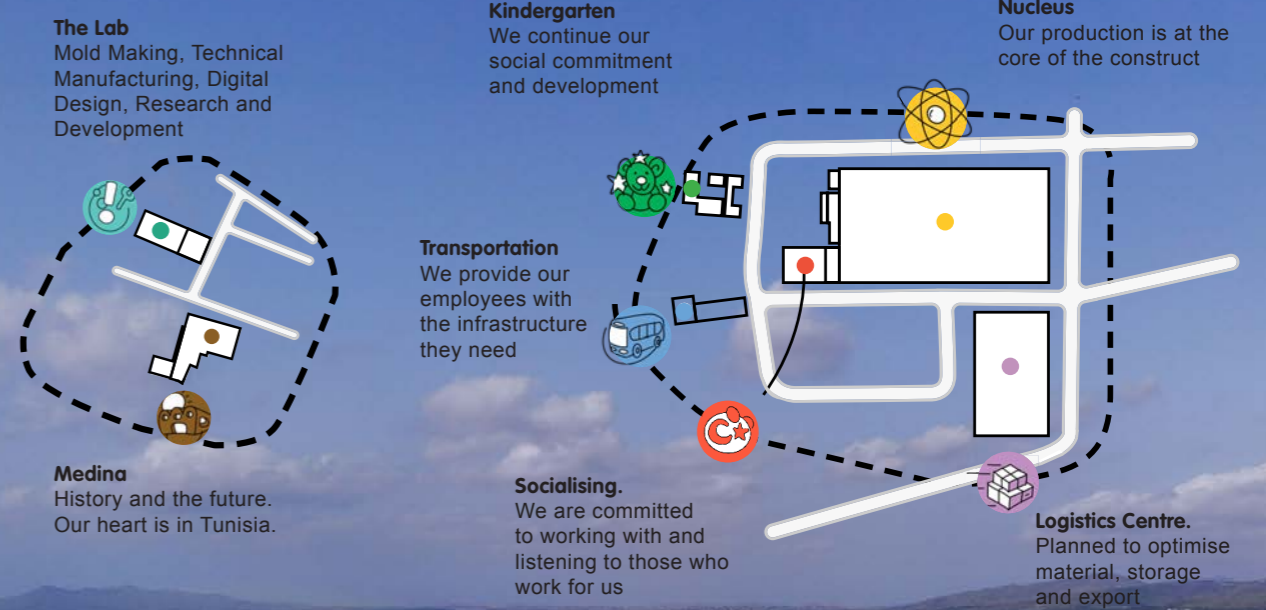


# WHO WE ARE YOUR PARTNER IN MOLD MAKING

**nani tech s.a.r.l.** is a highly-specialized enterprise based in Tunisia. The 50-employee company is at the forefront of precision mechanical engineering. We focus on the design and engineering of injection and thermoforming molds, as well as high-precision mechanical tooling. Our expertise extends across diverse industries including toys, aerospace, and automotive. We pride ourselves in delivering tailored solutions to meet the unique demands of each sector.

In addition we excel in 3D organic modeling of figurines for toy industry clients. This creative aspect allows both artistic expression and technical precision, ensuring that the final products not only meet rigorous standards but also captivate the imagination of end-users. With a keen eye for detail and a commitment to cutting-edge technology, we understand ourselves as a reliable partner for businesses seeking top-tier solutions in mechanical engineering and design.

# OUR SETUP BASED IN TUNISIA







**BELHASSEN NASRI**

belhassen.nasri@nani.tn  
+216.97.04 08 08



**FIRAS ELLINI**

firas.ellini@nani.tn  
+216.97.04 14 92

## WHAT WE DO PROVIDING ASSETS FOR YOUR SUCCESS

Toy design and injection mold feasibility. These crafts rely on a making sit at the intriguing inter- section of engineering and art. They demand a fusion of technical progress and creative flair. Toy designers blend aesthetics with functionality, crafting visually appealing designs. Meanwhile, injection mold makers apply engineering skills to create durable molds, considering material flow and manufacturing

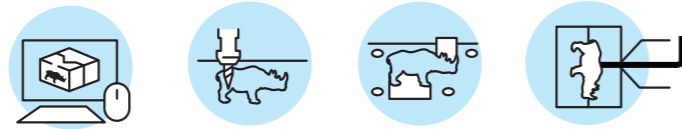
feasibility. These crafts rely on a deep understanding of aesthetics, materials, and engineering principles. The outcome is a harmonious blend of form and function, where precision engineering meets artistic expression. In our work, we also follow the philosophy of sustainable development. Offering young people a career opportunity is just as important to us as gender equality.





YOUR NEEDS:  
DESCRIBE THE  
REQUIRED  
SOLUTION.

### CONVENTIONAL MOLD MAKING



### DIGITAL MOLD MAKING

## HOW A MOLD IS MADE PRECISION-MACHINES AND CRAFTSMANSHIP

Creating a mold strikes a fine balance between craftsmanship and precision machining. We have established a workshop that emphasizes both approaches in tandem. Crafting an injection mold is a skill rooted in experiences amassed over the past 50 years. Our Mold Casting artisans and craftsmen have spent years perfecting their craft. In turn, their expertise informs the digital layout

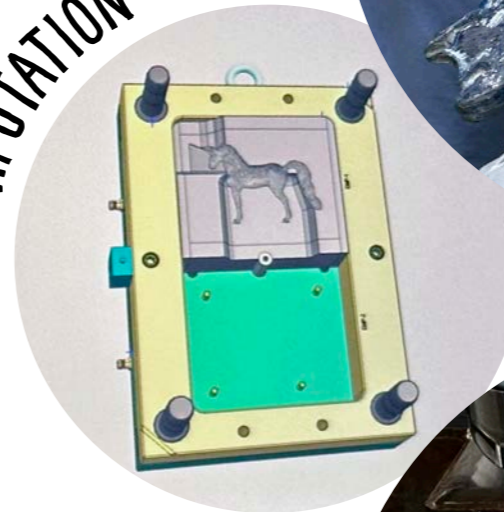
team, providing them with unique input that can only be acquired from the tactile experience of handling metal, while simultaneously leveraging the microscopic precision of modern machinery. We offer our customers the strengths and benefits of both approaches, giving you the flexibility to decide between speed, production run-specific mold longevity, and pricing.

ARTISTRY

CRAFTSMANSHIP



COMPUTATION



MODERN-TOOLS & TECHNOLOGY

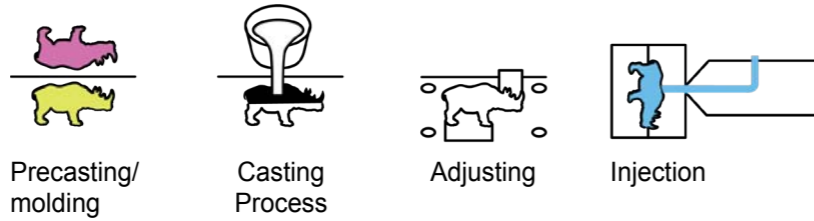




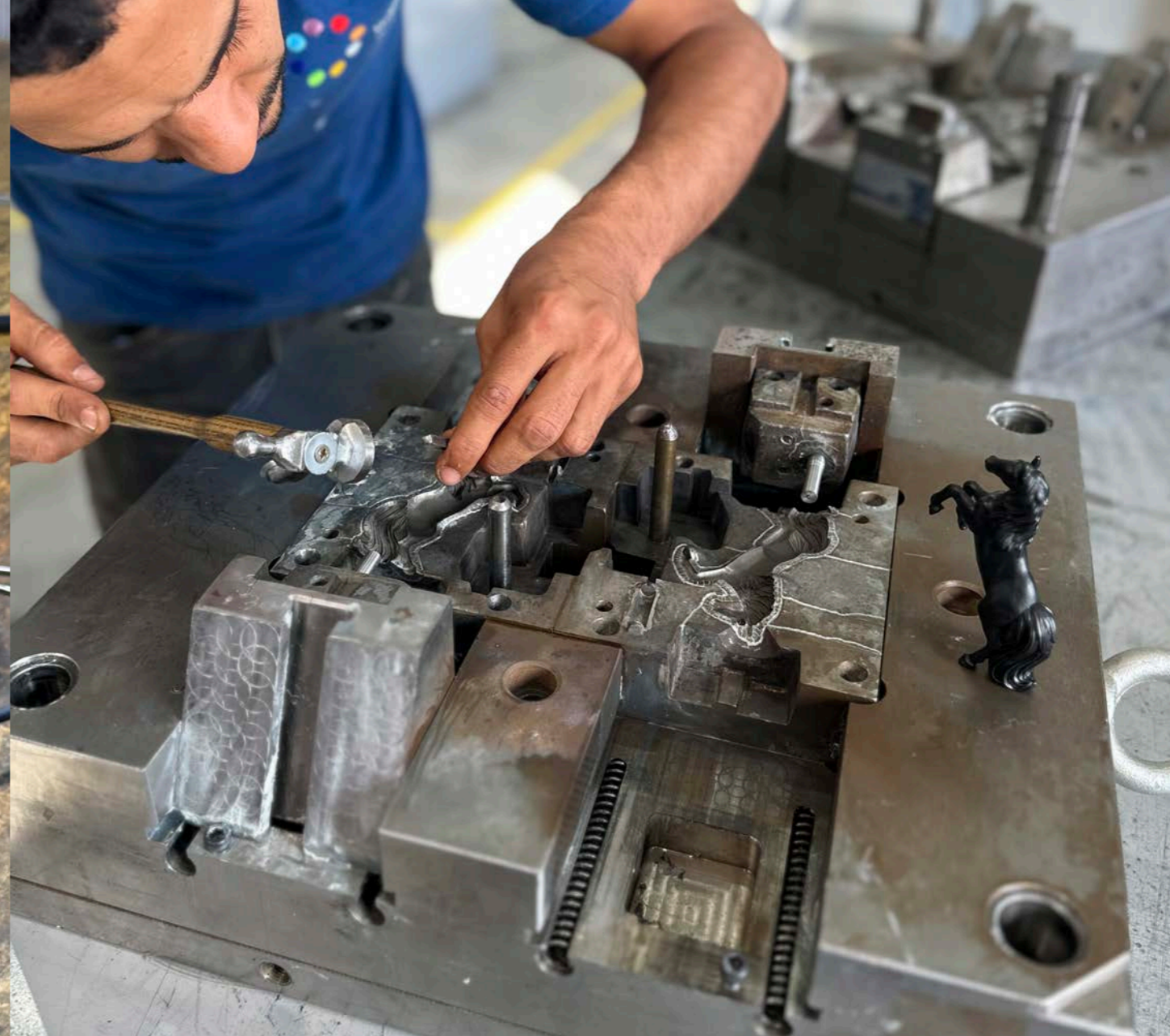


## CONVENTIONAL MOLD MAKING

In the traditional mold-making process, a metal negative is formed from an original or 3D printed master figurine through a sequential procedure involving silicone and gypsum casting. Once formed, the mold is meticulously trimmed; boreholes are set, and all components are manually adjusted and calibrated. This meticulous process ensures seamless and reliable injection, proving to be highly effective over extensive production runs.







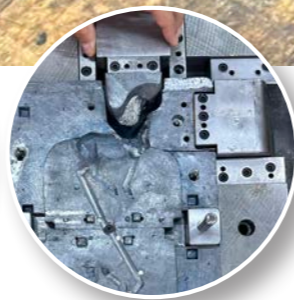
PREPERATION



CASTING



ADJUSTING



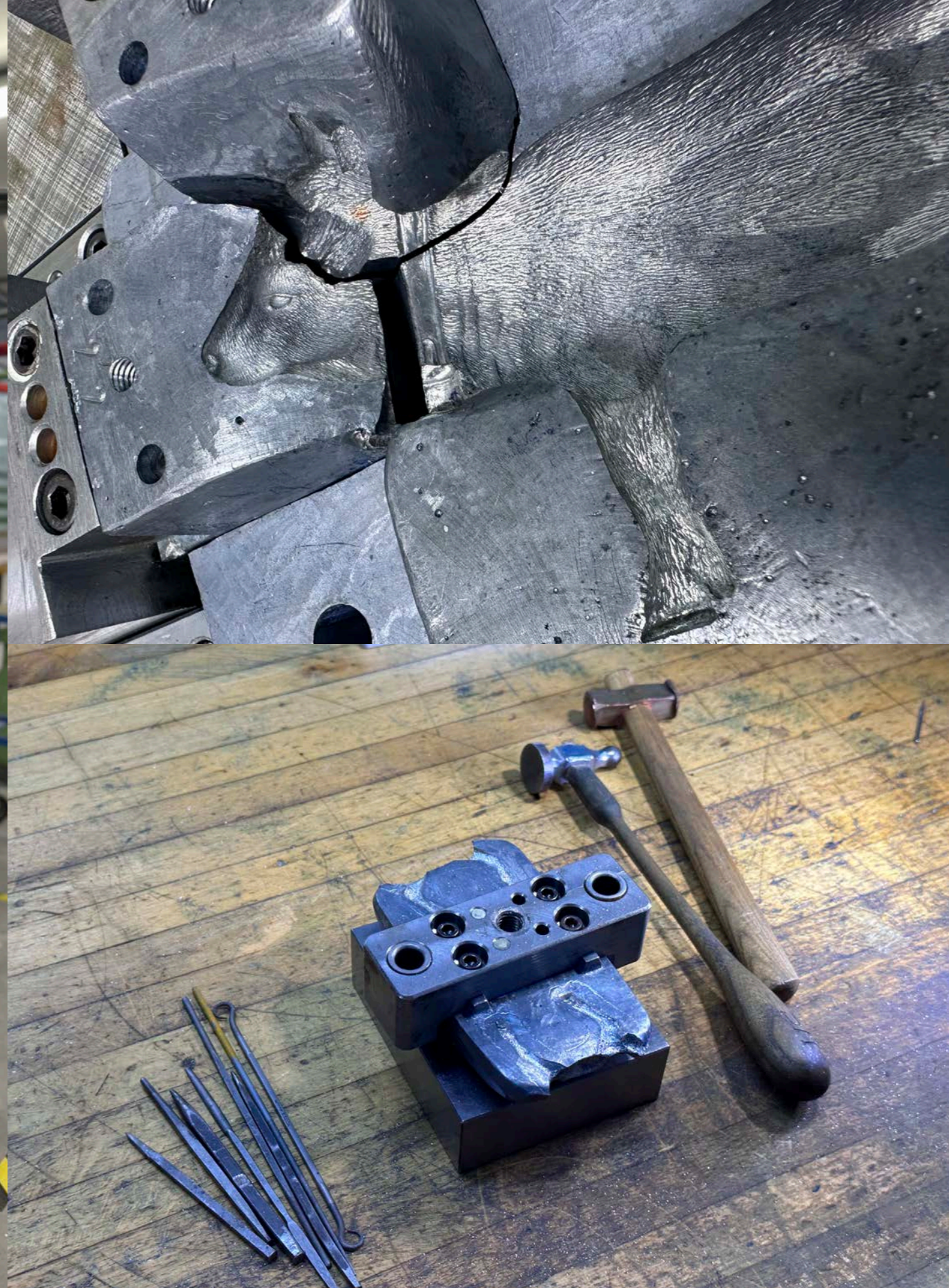
FITTING

CREATION

The story of a mold begins with its plasteline conception; however, its life continues over hundreds of thousands of injections. Our team shares its facilities and expertise with our maintenance team, identifying issues early and creating long-lasting technical solutions.

MAINTENANCE









# MOLD MAKING BY CNC

Following the creation of a digital version of the mold and approval of the details by the client, the individual molds are accurately milled and adjusted using our advanced machinery. Thanks to sophisticated digital simulations, all parts are ensured to possess tightly sealed fittings. This innovative technique not only facilitates the effortless creation of copies or additional molds at short notice but also guarantees easy preparation of the mold for millions of repetitive uses, showcasing a blend of precision and efficiency.



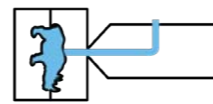
Digital conception



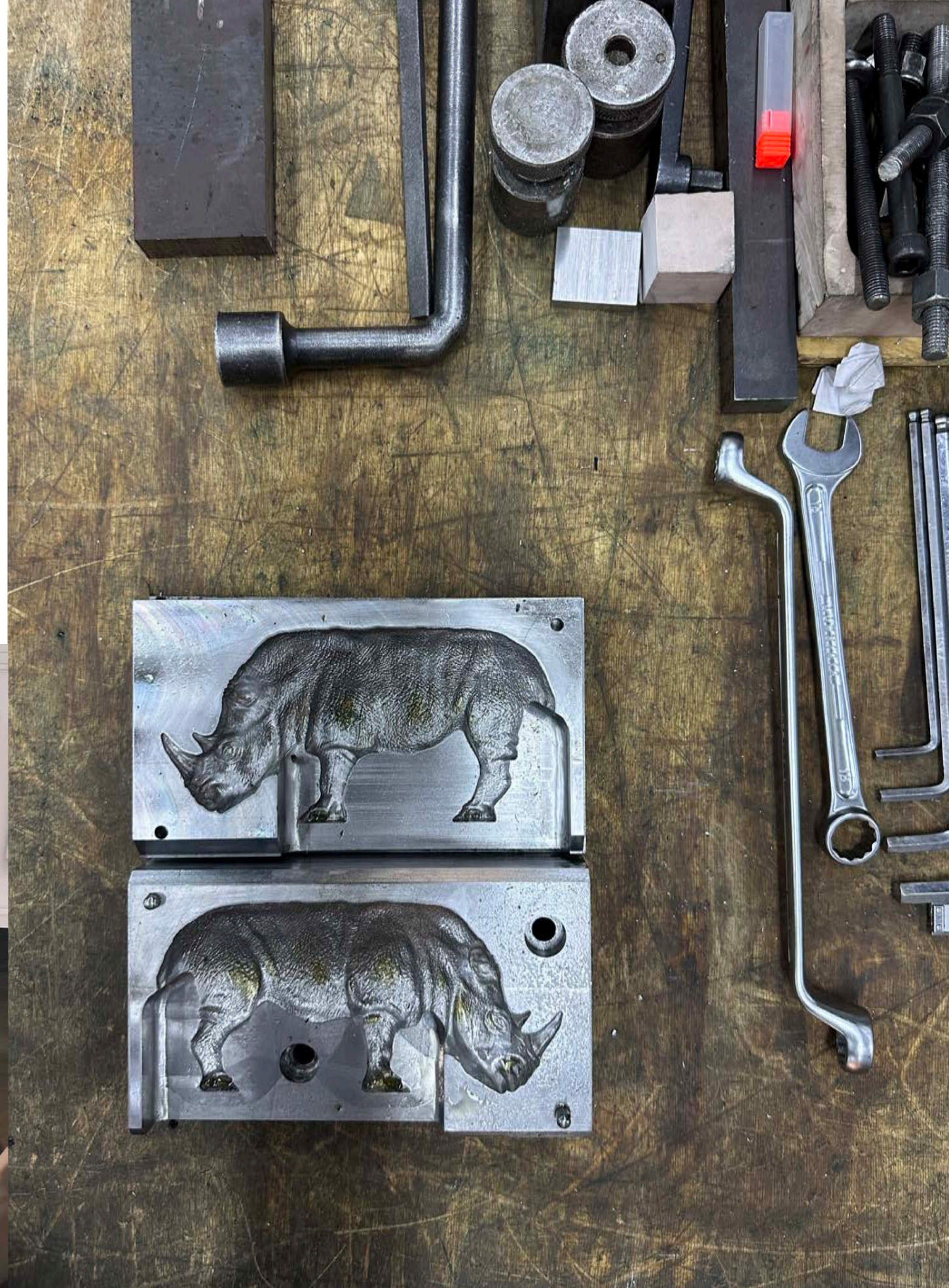
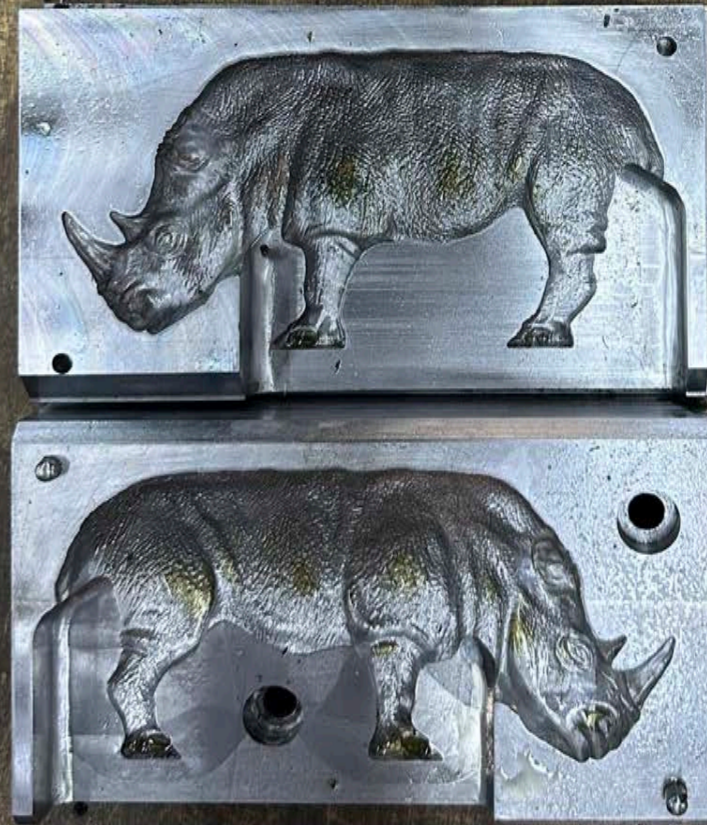
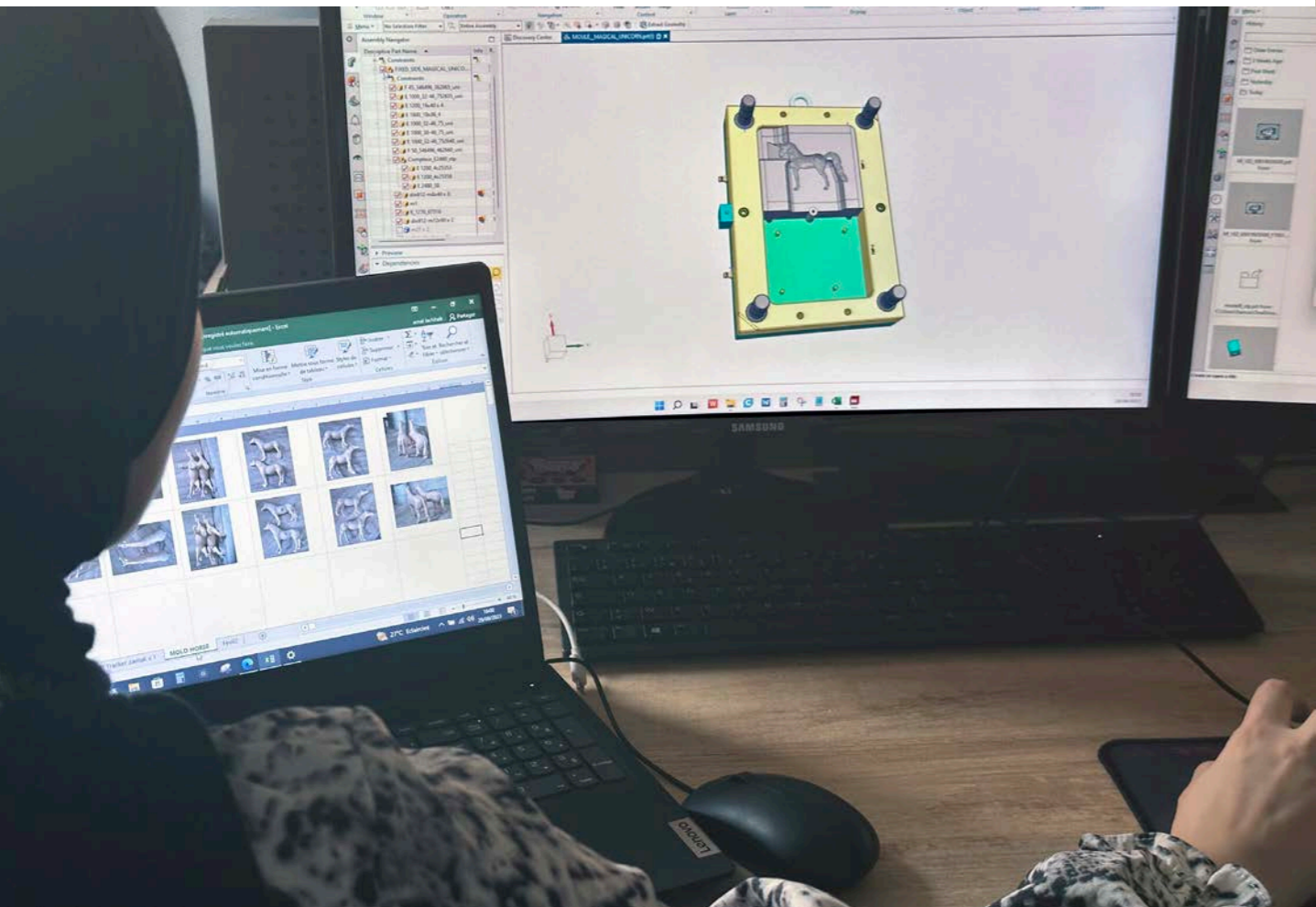
Casting Process



Adjusting



Injection

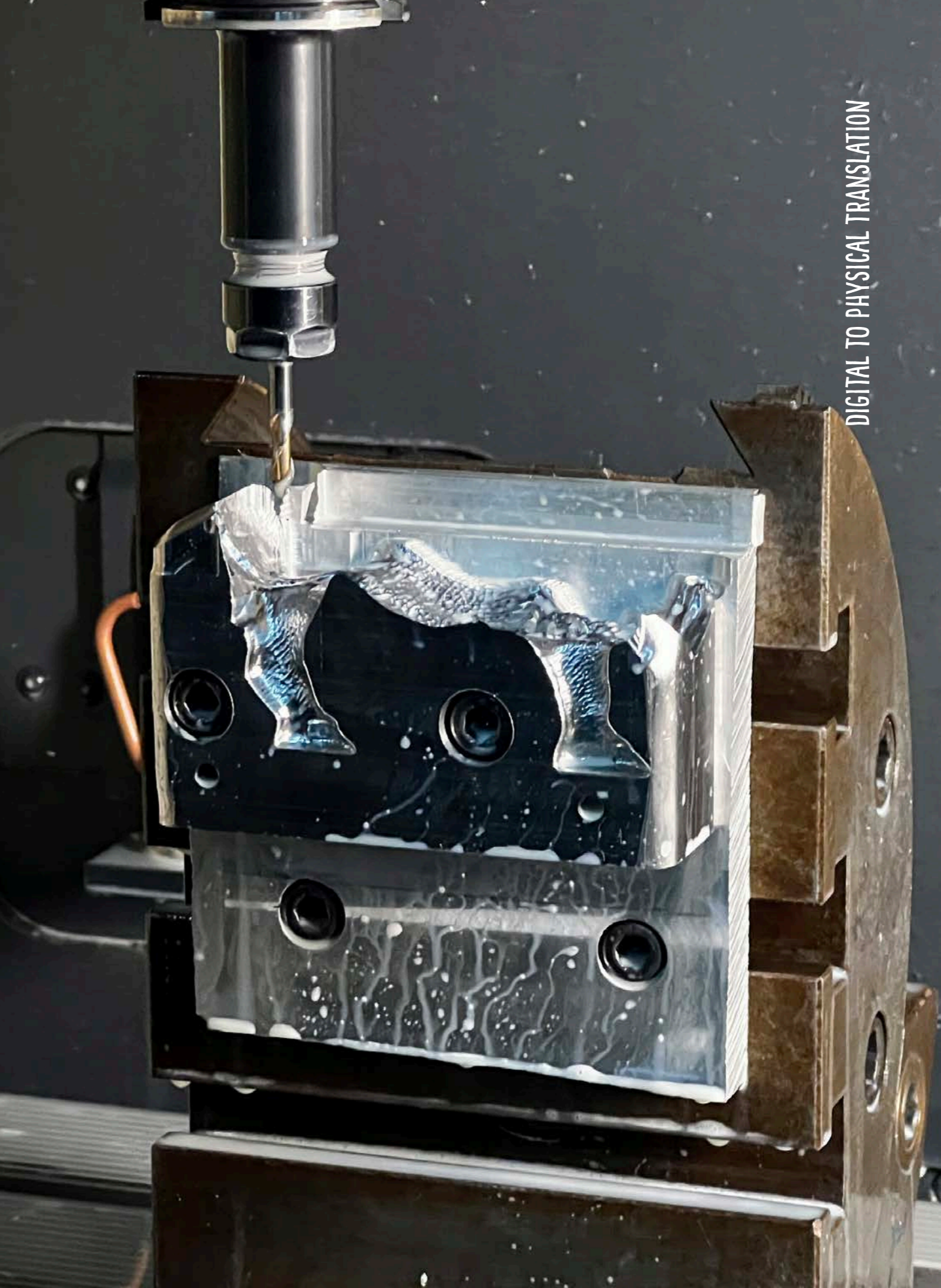




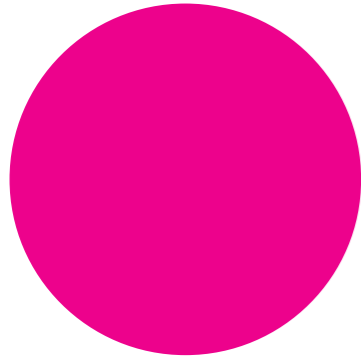
PRECISION AND CONSISTENCY



DIGITAL TO PHYSICAL TRANSLATION

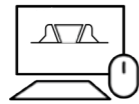




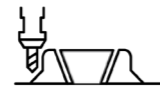


# CNC VACUUM MOLD MAKING

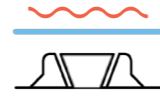
Specializing in both Jigs and Vacuum CNC molds, our workshop caters to common demands within the automotive and aerospace sectors. The same technology is adeptly employed to craft molds for custom plastic packaging, designed to accommodate the irregular and unique shapes and sizes of various products. This facet of mold-making underscores our commitment to meeting diverse client requirements, substantiating our proficiency in contemporary mold-making techniques.



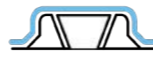
Digital conception



Precision Machining



Material heating

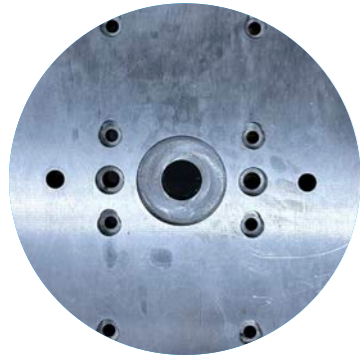


Vacuum forming



PRECISE DIMENSION VALIDATION EQUIPMENT



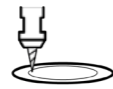


## PRECISION CNC MACHINING

Our facility houses machines of superior quality, capable of producing finely detailed and precise parts in a repeatable manner. This service complements our mold-making capabilities by facilitating the creation of custom parts for novel technologies and experimental ventures with conventional production processes. The synergy between precision machining and mold-making renders our services indispensable in navigating the challenges of modern production landscapes.



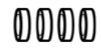
Digital  
conception



Precision  
mashinging



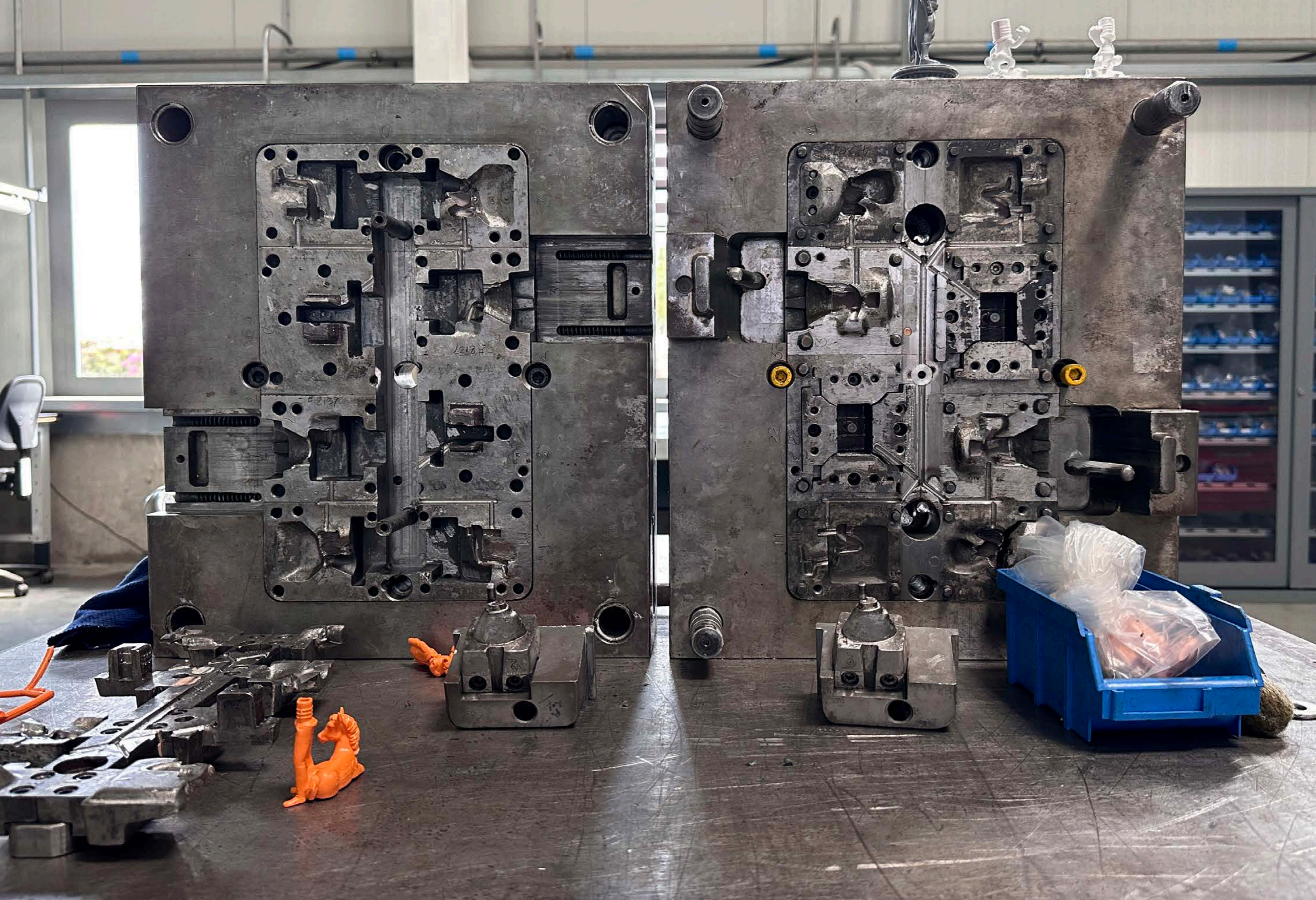
Quality  
control



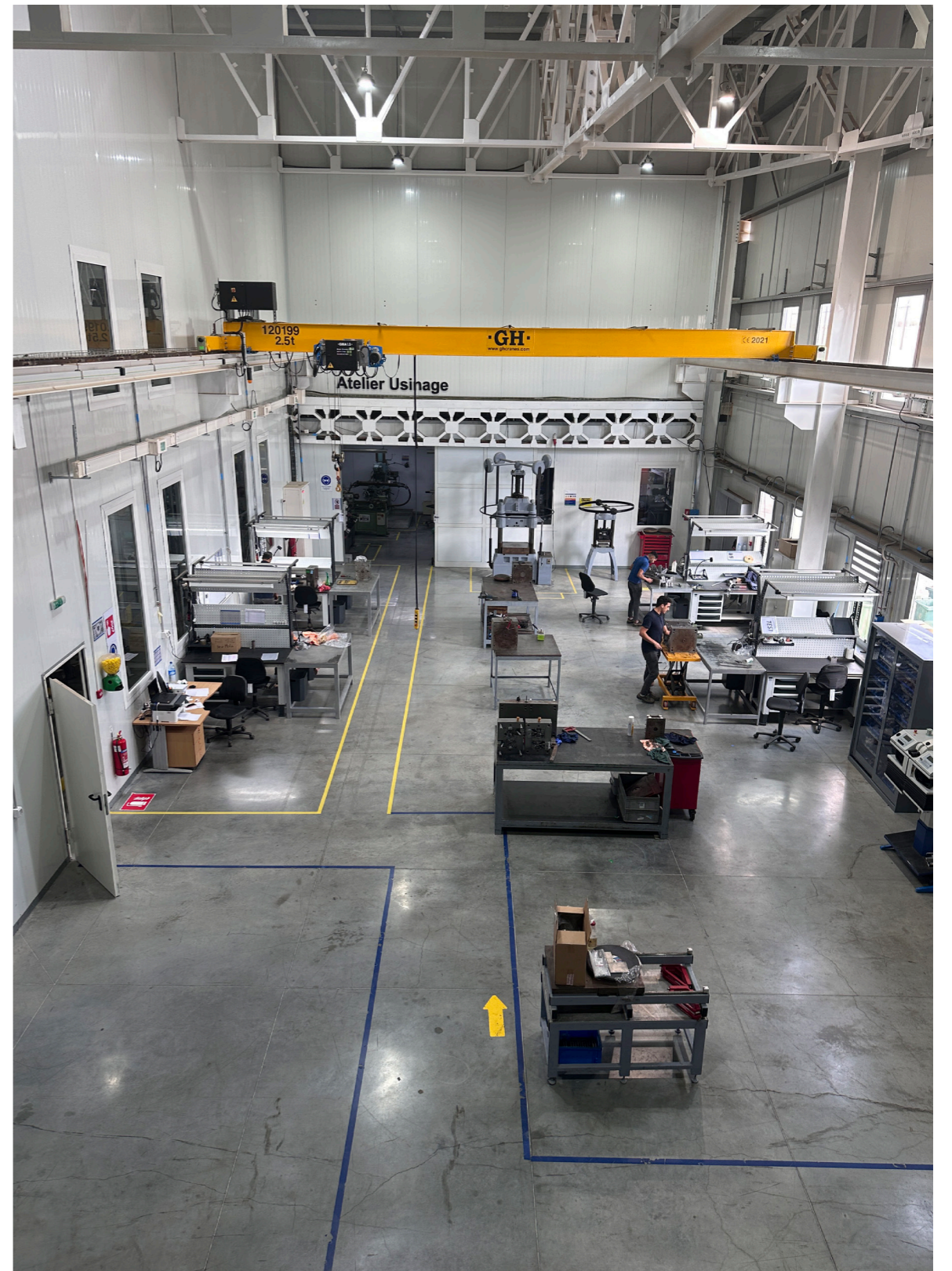
Repeatable  
production



















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