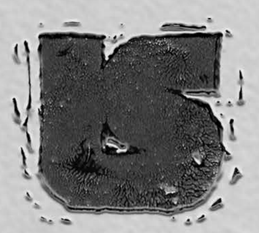


. portfolio

///. product design

Linda
Suchanová

2021-2025

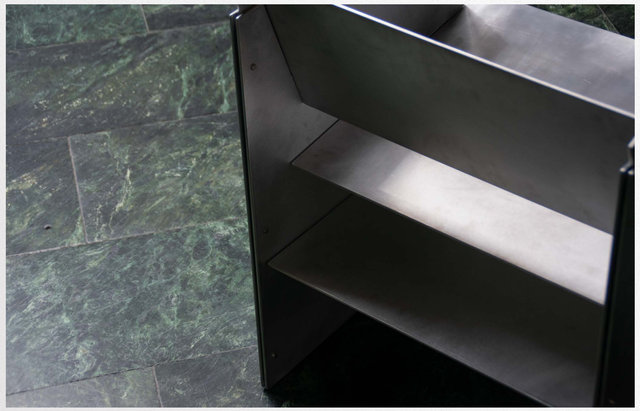
Hi, I’m Linda,

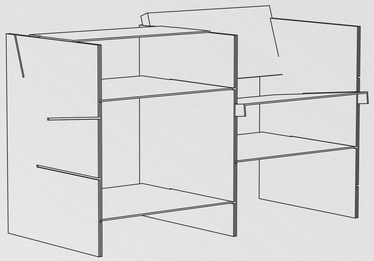
I’m passionate about transforming ideas into exceptional designs by exploring materials, technologies, and creative boundaries. From research to prototyping, I embrace the opportunity to push new possibilities in product design.

portfolio

armchair / shelf
aluminium
modular furniture
patina

02

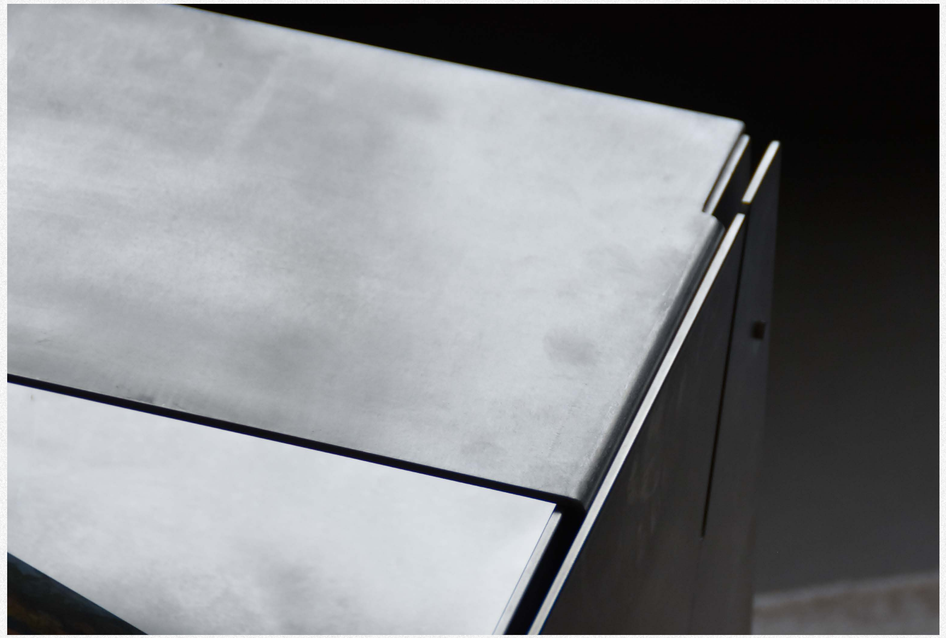




This piece of furniture represents a modular aluminum system that can be flexibly used as a chair, an open shelf, or interconnected with other units. Its construction allows for easy disassembly and convenient storage, making it especially appealing to users who prioritize mobility and spatial adaptability. The furniture is designed for both indoor and outdoor use – its material durability is balanced by a subtle aesthetic that harmonizes with a variety of environments.

To enhance its visual appeal, the seating area features a delicate surface treatment that mimics a natural patina. This detail deliberately softens the stark industrial nature of the aluminum, adding a sense of coziness and character.

The design draws inspiration from Brutalist architecture - its formal language and raw materiality reference strength, structure, and timelessness. The shelf can be used as a bookcase, bar, or a stand for a turntable and vinyl collection, giving the furniture not only a functional but also a personal dimension.



beehive

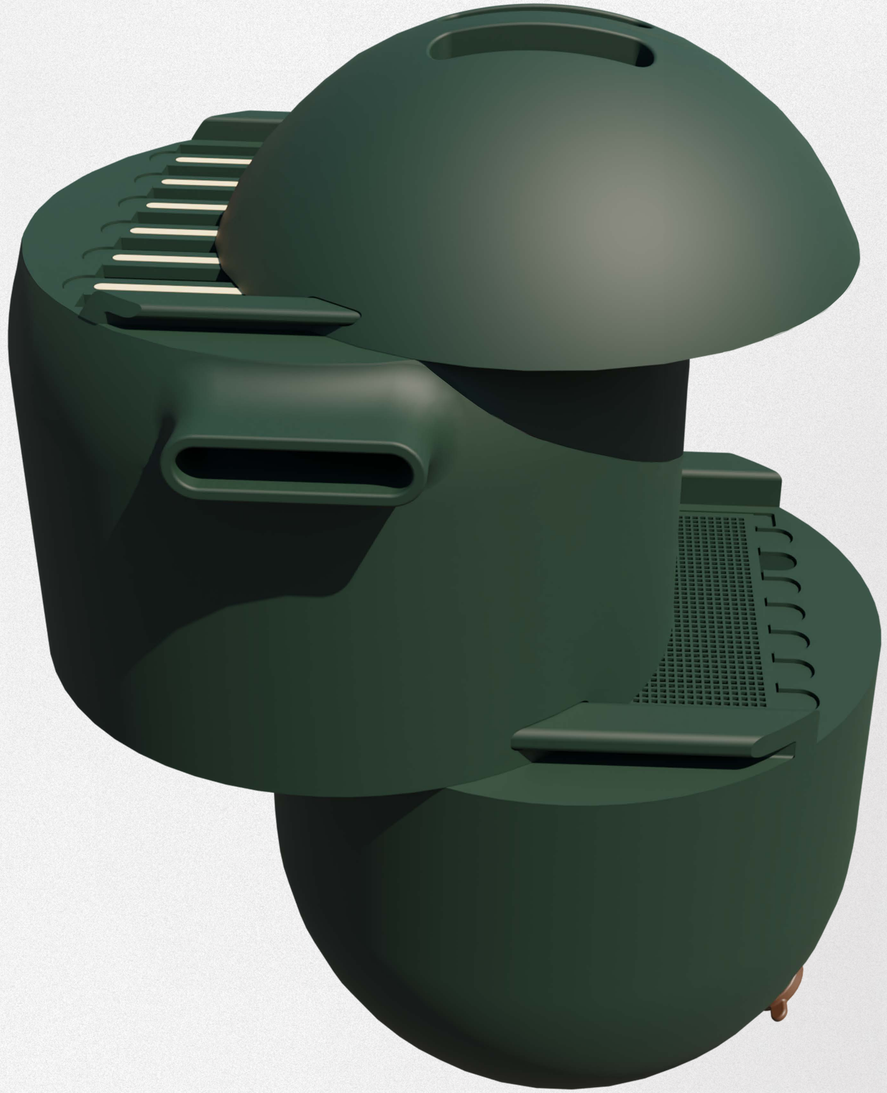
3D printed

hobby beekeeping

suspended

beeboo

This beehive design is intended for public parks and private gardens, with the goal of creating a safe haven for bees. The entire hive is 3D printed using eco-friendly, non-toxic filament suitable for bees (e.g., Hemp Filament, PETG).



To ensure sufficient insulation, I used a gyroid structure between the hive walls, eliminating the need for polystyrene. Another advantage of 3D printing is the removal of the need for expensive injection molding. Based on my research, I designed a hanging hive that remains stable even in windy conditions thanks to a compartment for sand at the bottom.

rescue axe

for firefighters

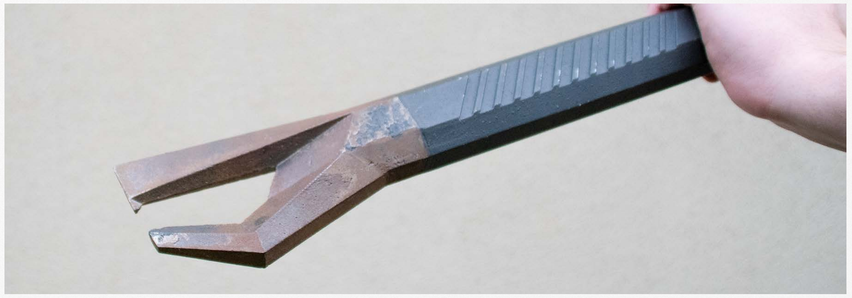
multi-tool function

steel

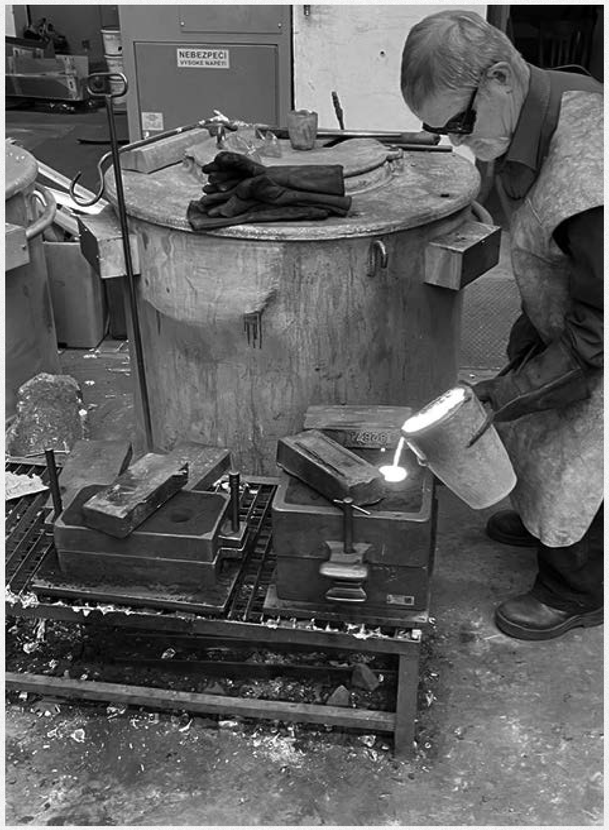
SKALP

The rescue axe designed for firefighters combines the most commonly used tools into one effective unit. It is ideal for chopping, prying, creating, and expanding holes in walls, doors, or vehicles. The design was created in collaboration with professional firefighters, who highlighted key elements and opportunities for improving existing axes.

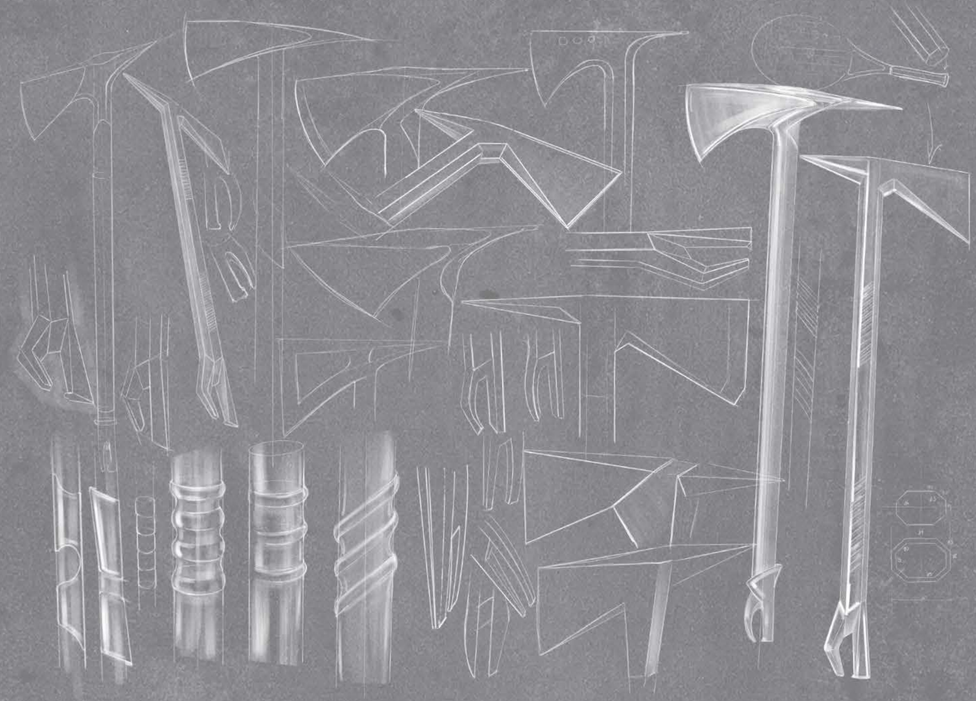
Based on consultations with firefighters, I extended the handle to improve leverage and control. Instead of using a rubberized grip, which tends to wear out over time, I integrated grooves into the handle at the gripping area. This improves grip without compromising durability.



Inspired by the handle design of a tennis racket, I applied a similarly contoured shape to the axe handle. This prevents the tool from rotating in the hand while maintaining a comfortable grip. Firefighters also pointed out that many standard rescue axes include too many rarely used tools, which only add unnecessary weight. In response, I focused my design on incorporating only the functions they rely on regularly, making the axe lighter and more efficient.



The axe model is made of cast iron and 3D printed components. I first printed the top and bottom parts using a 3D printer and then cast them in iron to make the model's weight as close as possible to that of conventional axe. The handle is 3D printed and reinforced with two metal rods to enhance its strength.



The axe features a steel construction resistant to high temperatures. The top part consists of a blade, followed by a piercing spike for creating holes, and the bottom is equipped with a jaw similar to a can opener, which also serves for prying. This streamlined, feedback-informed design supports the firefighters' real needs in emergency situations.

infiltration measurement device

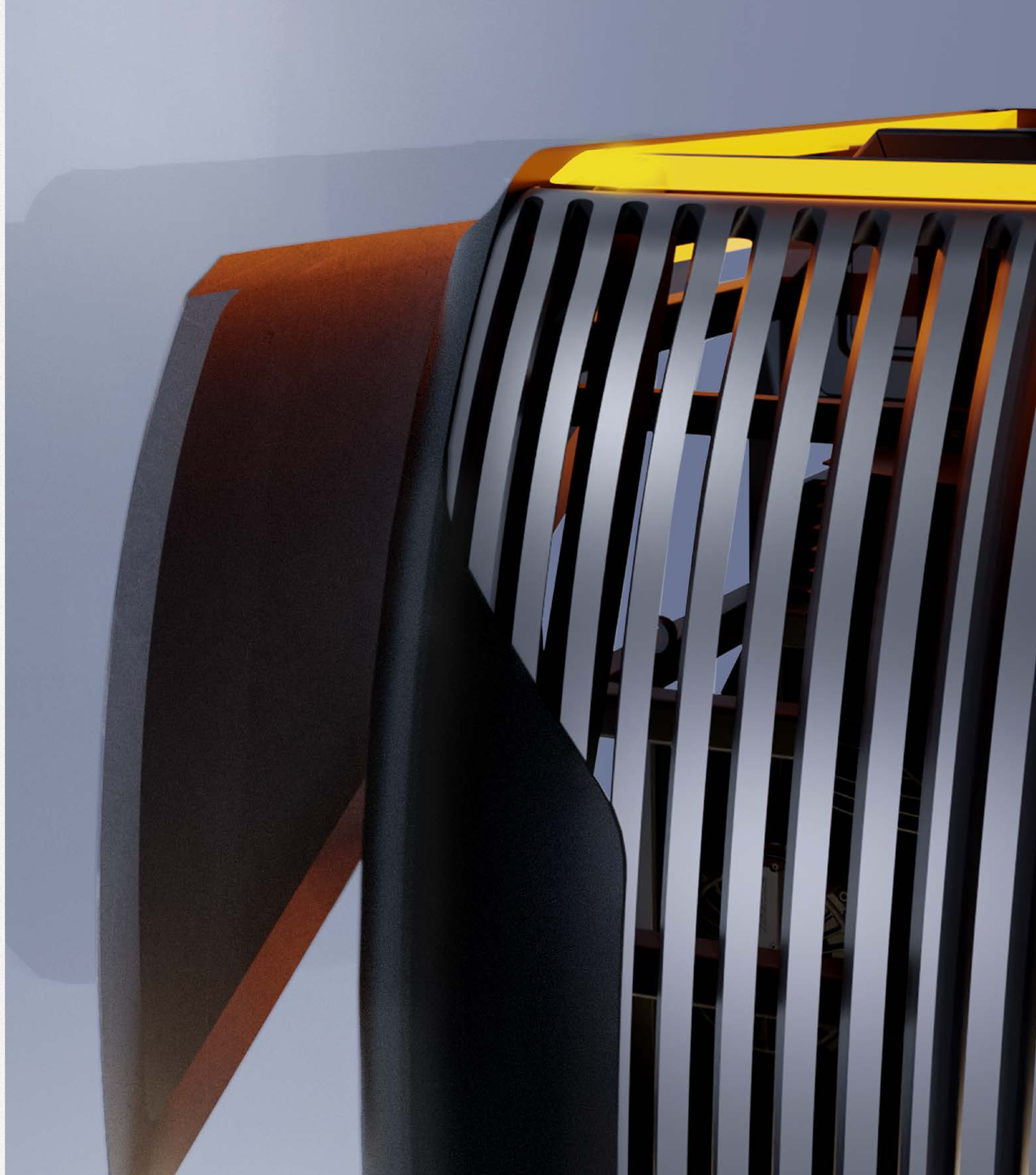
award-winning design

student collaboration

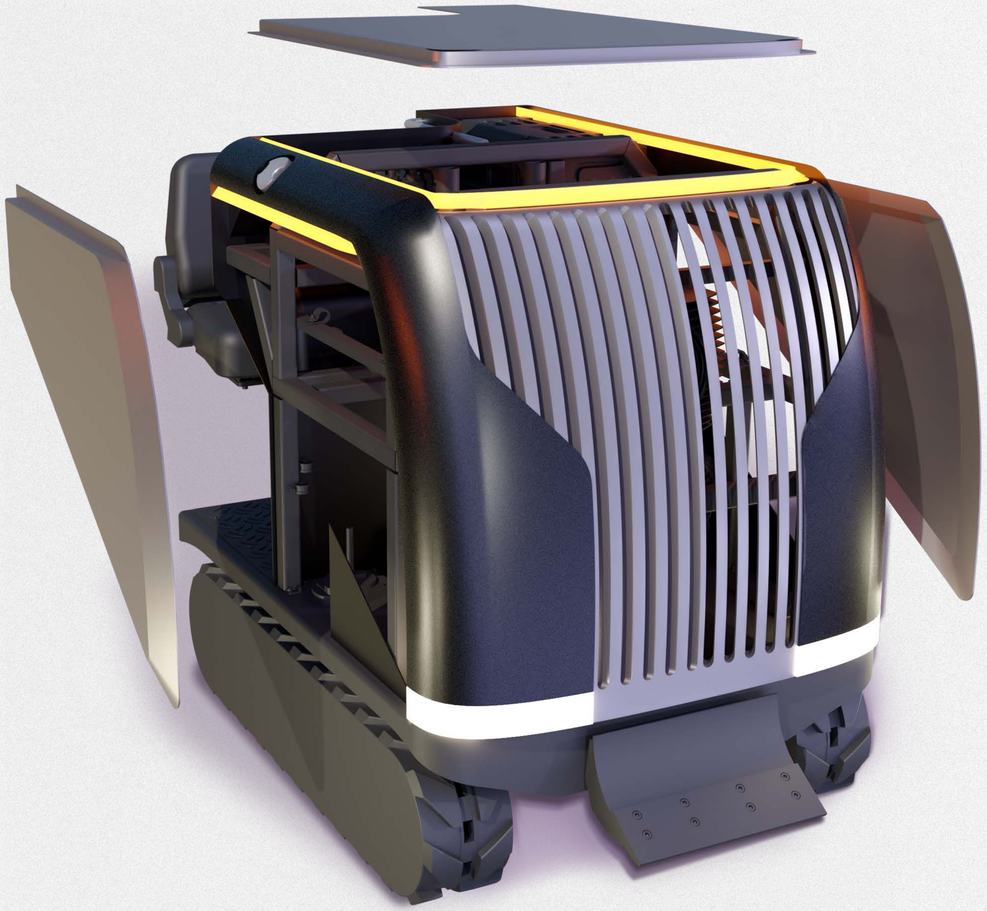
CTU competition

removable covers

HYD.RO



HYD.RO is the award-winning design of a competition at the CTU Faculty of Mechanical Engineering, created by a joint team of students from the Faculty of Mechanical Engineering and the Design Department.



Hydro is an automatic field device for measuring infiltration parameters. It is designed in such a way as to preserve the size of the floor plan of the machine, its consistency and the possibility of simple maintenance. The machine's covers are designed to be completely removable, allowing access to internal components.

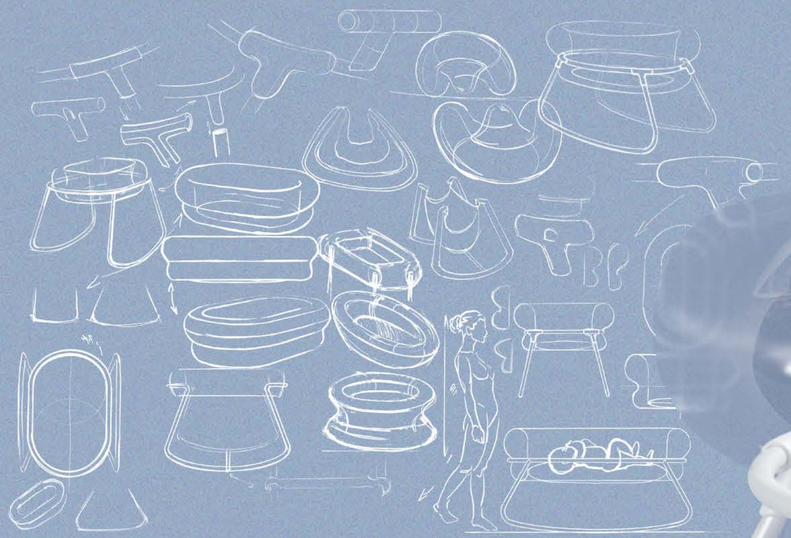
inflatable baby cradle

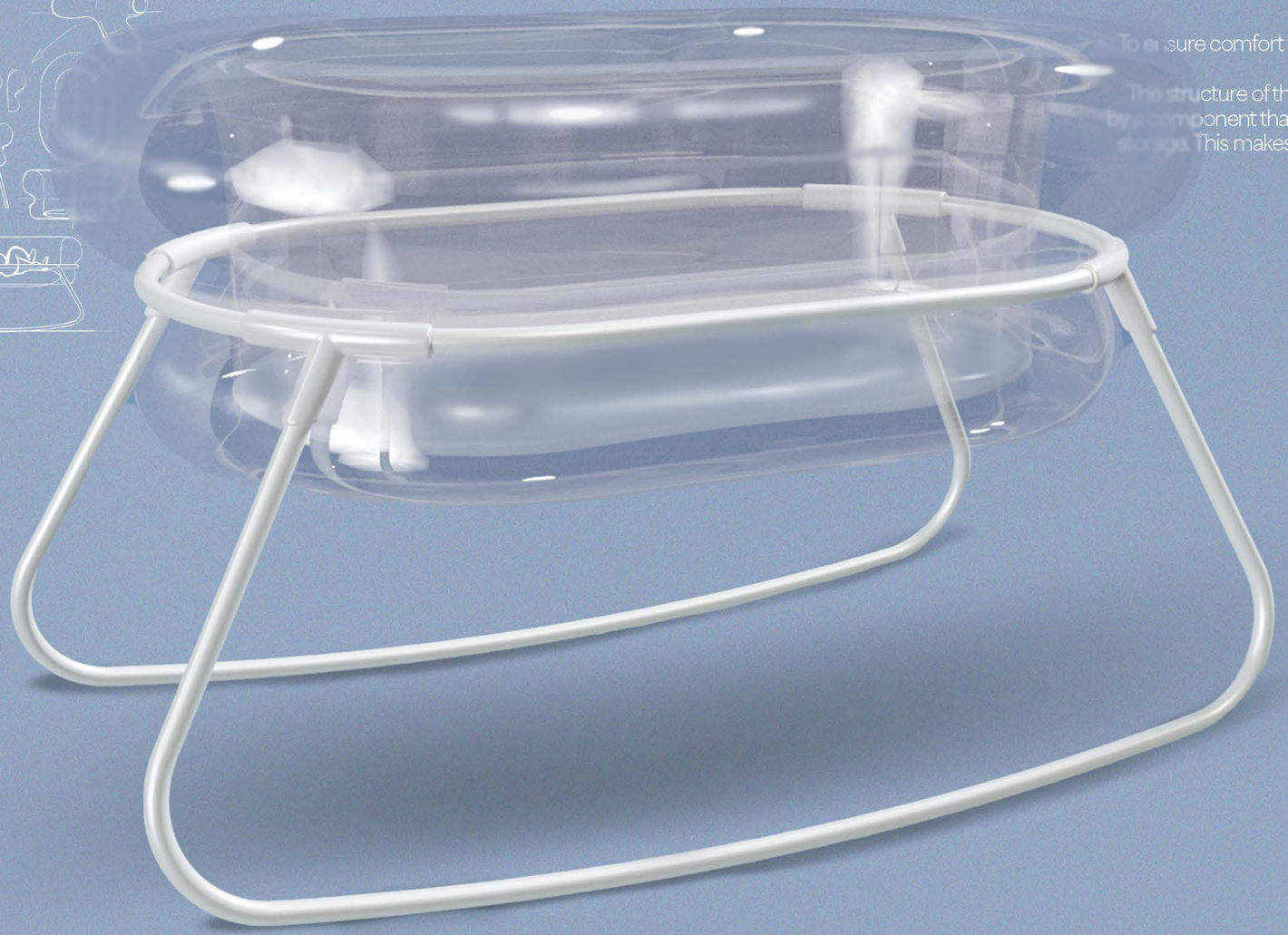
lightweight design

compact storage

travel-friendly

mooi





The baby cradle features an inflatable basket that can be easily inflated and transported comfortably. Since the basket is made of plastic, it is not only lightweight but also easy to clean, making maintenance simple for parents. Additionally, it can double as a baby bathtub, providing a multifunctional solution for everyday baby care.

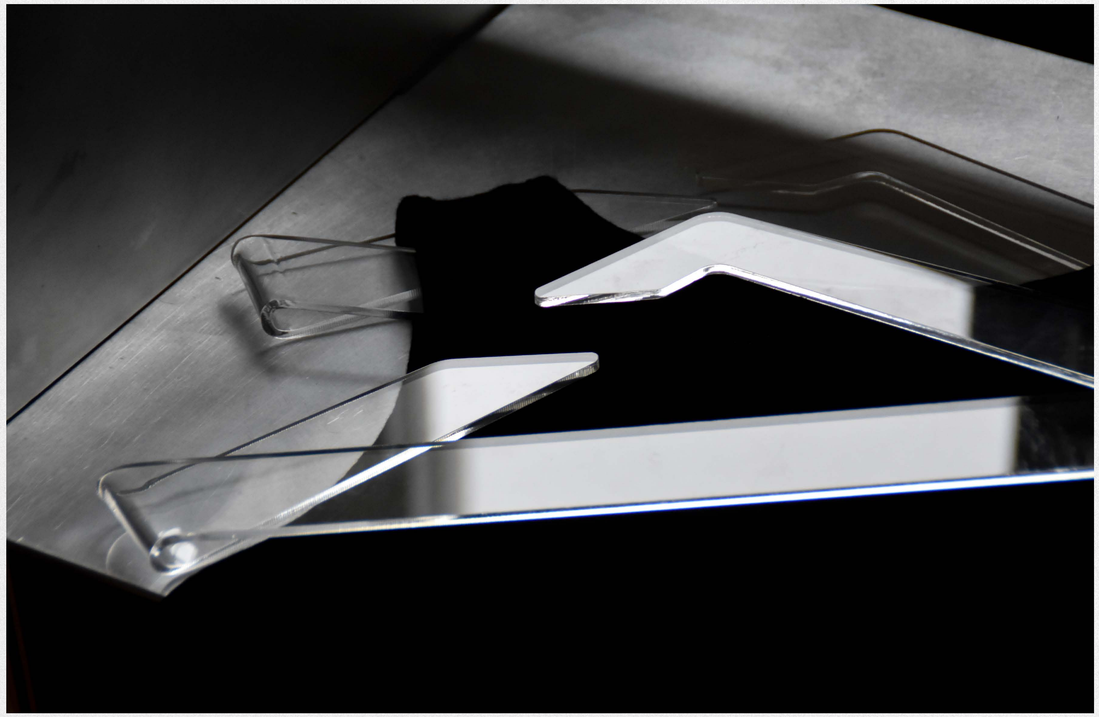
To ensure comfort for the baby, a baby mattress would need to be added to the cradle.
The structure of the cradle is built from bent tubes, connected by a component that allows for quick disassembly and compact storage. This makes the cradle convenient for small spaces and travel.

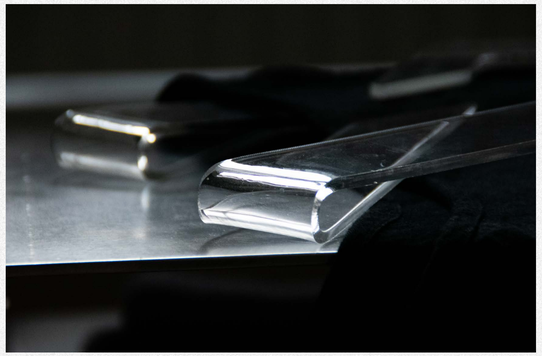
plexiglass hanger

laser-cut shape

minimal material waste

fOLD





My task was to design a product with a production cost of up to 100 CZK (4 €) that would be both practical and elegant. I decided to create a clothes hanger made of plexiglass, which can be easily laser cut and shaped by bending.

Due to the higher cost of the material, I focused on maximizing the use of the sheet and minimizing waste. The hanger is designed to produce as many pieces as possible from a single sheet of plexiglass.

After laser cutting, the bending points are heated with a hot air gun and folded, reinforcing the hanger's structure. Thanks to its simple design, the shape can be easily adjusted to create different variations. The result is an affordable hanger suitable for hanging T-shirts, shirts, trousers, and accessories.

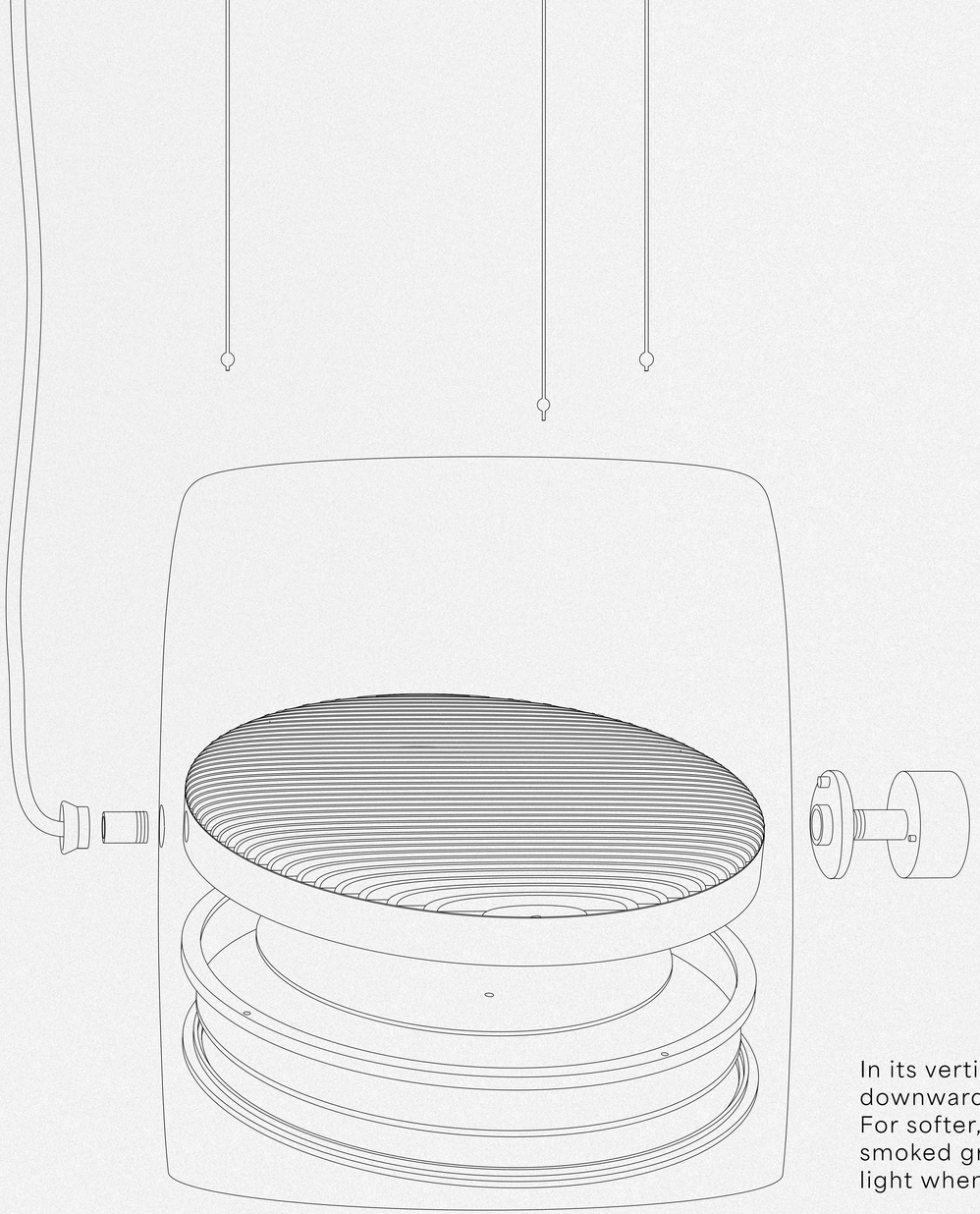
collaboration with glassmaking company Brokis

functional lighting

adjustable intensity

scope

My lighting design focuses on functionality and style, perfect for spaces needing quality illumination for work or even relaxation. Designed to hang above a desk, kitchen island, or other accessible areas, the light offers adjustable intensity and direction with a simple twist of the module.



In its vertical position, it shines directly downward for maximum brightness. For softer, ambient lighting, the smoked gray lampshade diffuses the light when tilted.

Frosted or clear shade options allow for varied light intensity. An aluminum heat sink ensures optimal performance with powerful LEDs, seamlessly blending with the sleek design of the lighting.

Video of the
lighting design

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