

The background of the entire page is a photograph of dark-stained wooden planks. One plank runs vertically, and another runs horizontally, intersecting it. The wood grain is clearly visible. The Duplex logo is centered over the intersection of these planks.

duplex®



Context	3
Approach	10
Offer	14



Context

Four friends, each with
unique backgrounds,
set out to tackle
a pressing issue:

Reducing the
environmental impact
of our objects.



United by a passion for sustainability, we collaborated to find innovative solutions for a more durable future.



2,5mi

The EU produces more than 2.5 billion tons of waste per year.*

37m

In Belgium, the industry is the sector producing the most waste, with an average of 37 million tonnes.

70%

The raw materials of an item can account for up to 70% of its environmental impact.*

After 3 years of development and specification, we set ourselves one objective:

Create a brand of sustainable furniture and objects by giving an alternative to the traditional furniture industry.

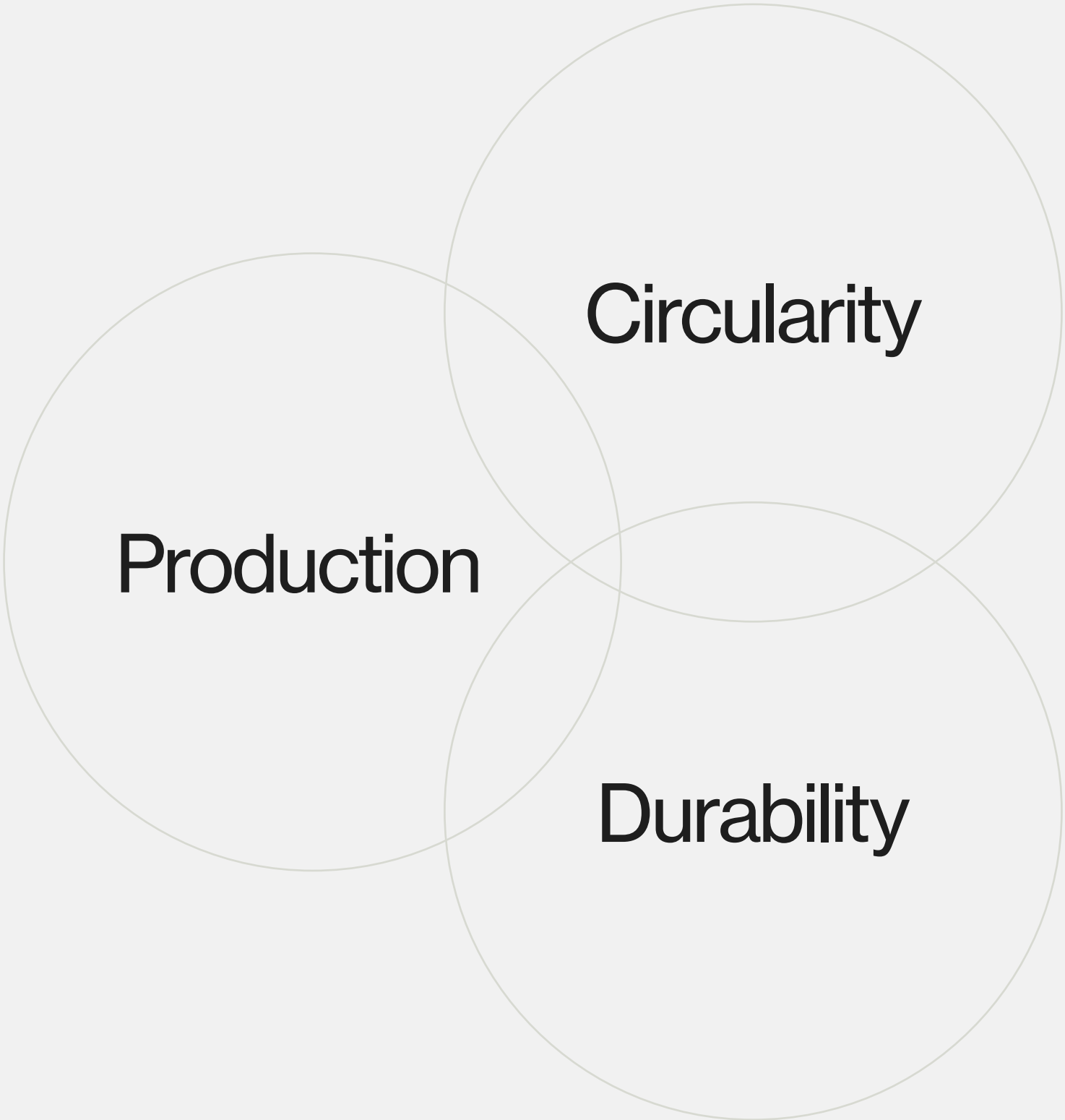




Introducing Duplex: a company specializing
in circular furniture and objects,
made from surplus and industrial by-products.

We prioritize agile, local and on-demand manufacturing :

This also allows us to respond more efficiently to customer demand, ensure personalization, avoiding overproduction and unnecessary stockpiling of inventory.



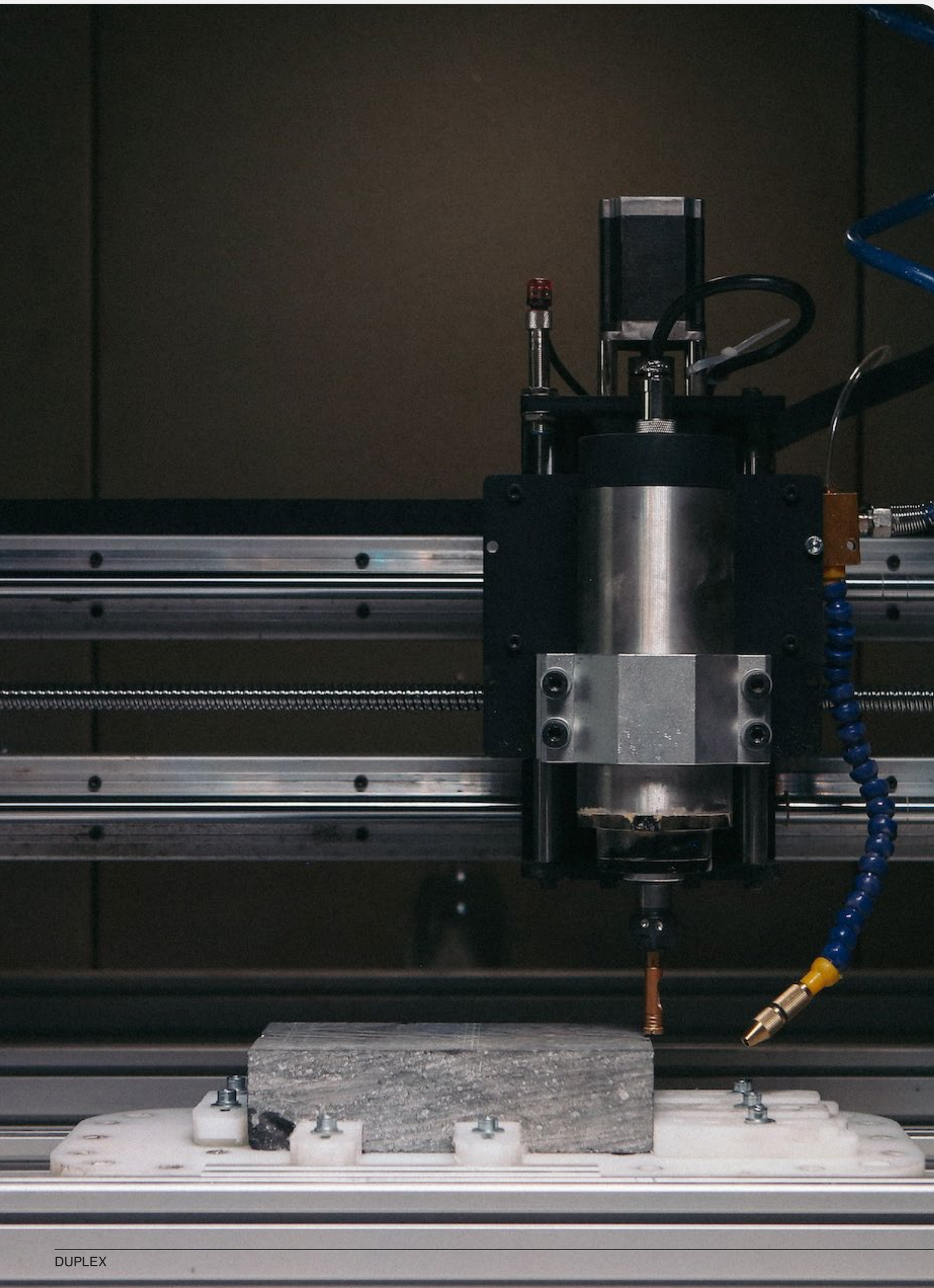
We prioritize using upcycled raw materials:

Upcycling raw materials allows us to give a new life to discarded or surplus materials, reducing waste and minimizing environmental impact. By incorporating upcycled materials into our products, we contribute to the circular economy by closing the loop on resource use.

We emphasize eco-conception guidelines :

We significantly extend the lifespan of our products while reducing the need for replacements and unnecessary elements. Our pieces are constructed through mechanical assembly. This ensures repairability, facilitating easy maintenance and servicing of our furniture, thereby enhancing its longevity.

Additionally, the flat-pack design streamlines assembly, reducing transportation emissions and minimizing packaging waste. Each component can be efficiently packaged for assembly upon delivery or disassembled for replacement.



To ensure our impact,
we have certified our approach
and manufacturing processes
through various organizations:





Approach

Through materials upcycling, Our goal is to limit waste and surplus from industrial production by giving a second life to unused or discarded materials.

The standardisation of these offcuts, including the reformatting, allows us to develop various collections based on their and our production characteristics.

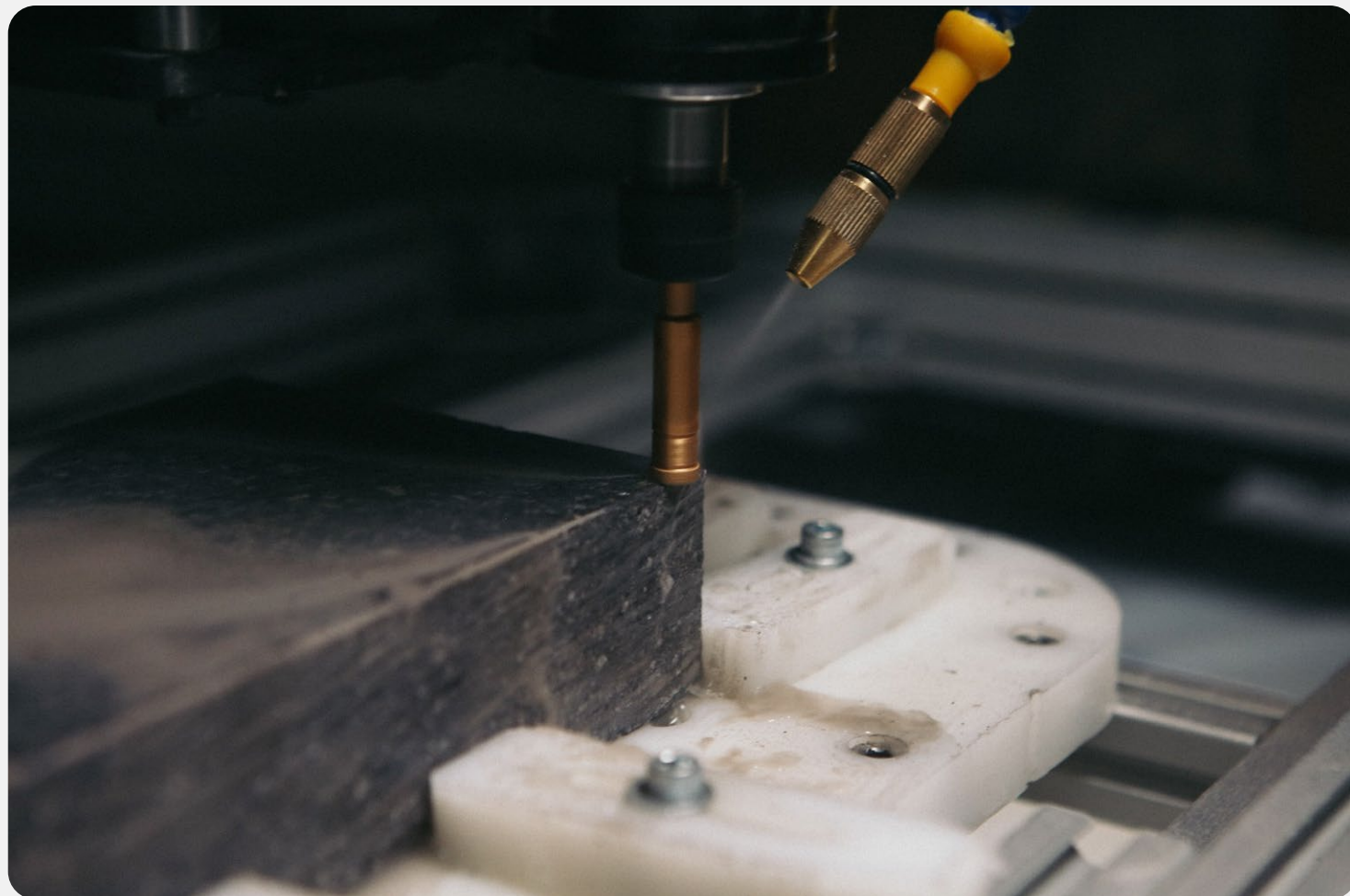
We aim to redefine the production process by incorporating sustainable principles and perspectives such as : eco-design, local production, durability and functionality.





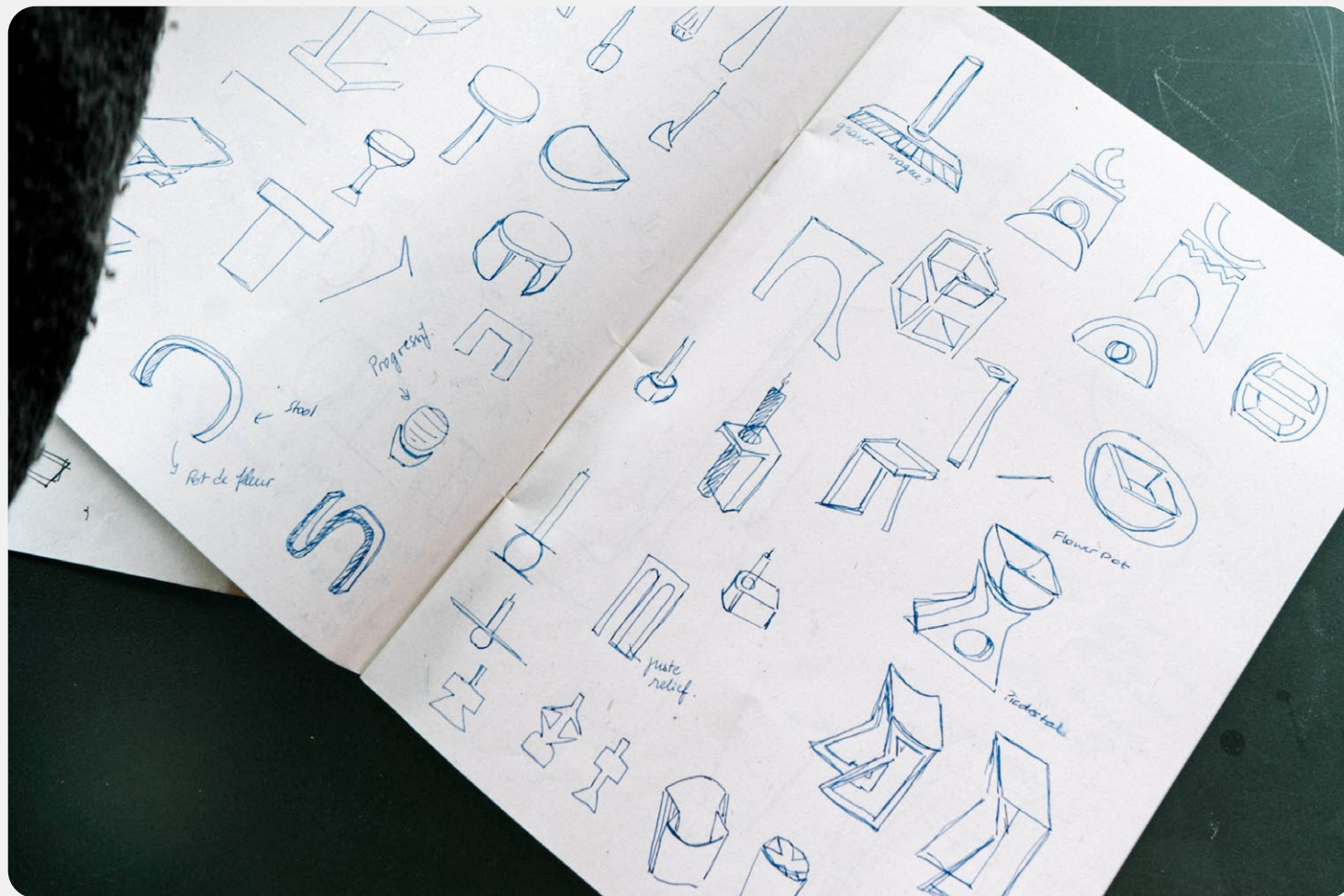
[1] Sourcing

We source our materials from unused resources provided by industrial companies. Our team analyzes surplus, waste, offcuts, and by-product streams. Once we secure a substantial amount of materials, we initiate regular in-house raw material storage.



[2] Standardization

To streamline and simplify the design and the production process, we reformat materials based on our production guidelines and machine capabilities. This step accelerates the overall workflow, ensuring efficiency in every stage of the manufacturing process.



[3] Eco-conception

We integrate environmental considerations into our product design. Drawing directly from materials, we embark on the eco-design process. We are focusing on material selection, mechanical assembly efficiency, durability, and ease of repair.



[4] Production

Operating on a demand-driven production model and utilizing our proprietary production process, we ensure a seamless manufacturing experience.

This approach not only guarantees the quality of our products but also eliminates issues related to furniture storage and delivery, making our process more efficient and sustainable.

Our production agility gives us the opportunity to collaborate on special and personalized pieces to meet our customer demands.



Offer

Collections



We offer permanent collections based on our material flows and their environmental impact.

Our production is on-demand, and we can ensure production series of more than 500 pieces internally.

This approach allows us to maintain our commitment to sustainability while providing flexibility and affordability for our clients through competitive pricing.

Personnalisation



We provide adaptation of our existing collections and propose designs in accordance with specific client projects.

Our approach includes close collaboration with our clients to ensure that each piece is personalized to their needs and desires.



Collections



Wood 01

A furniture collection crafted from wooden offcuts, embodying innovation and environmental responsibility.



By using byproducts from the Arbony wooden floor company, our furniture collection combines thoughtful design with ecological consciousness as the Belgian flooring company processes over 3000 meters of FSC-certified semi-solid oak offcuts annually.



Chair P. 20



Stool P. 22



Bench P. 24



Coffee table P. 26



Model	Chair
Materials	Semi solid oak and powder coated steel
Dimensions	L41 x P45 x H46/H80
Colors	Charcoal/Intense black/Pure







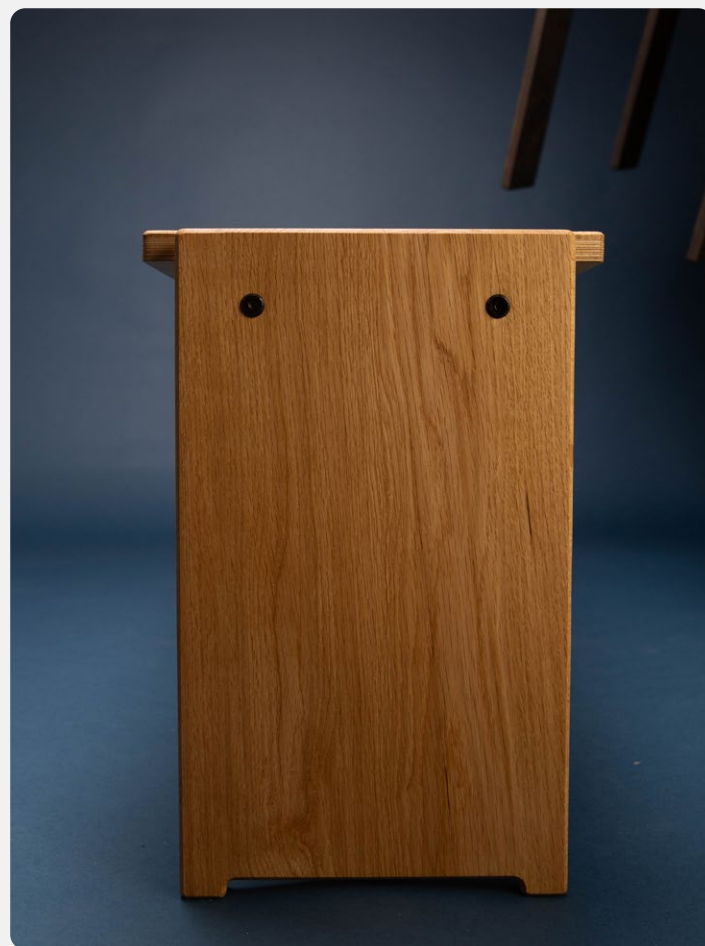
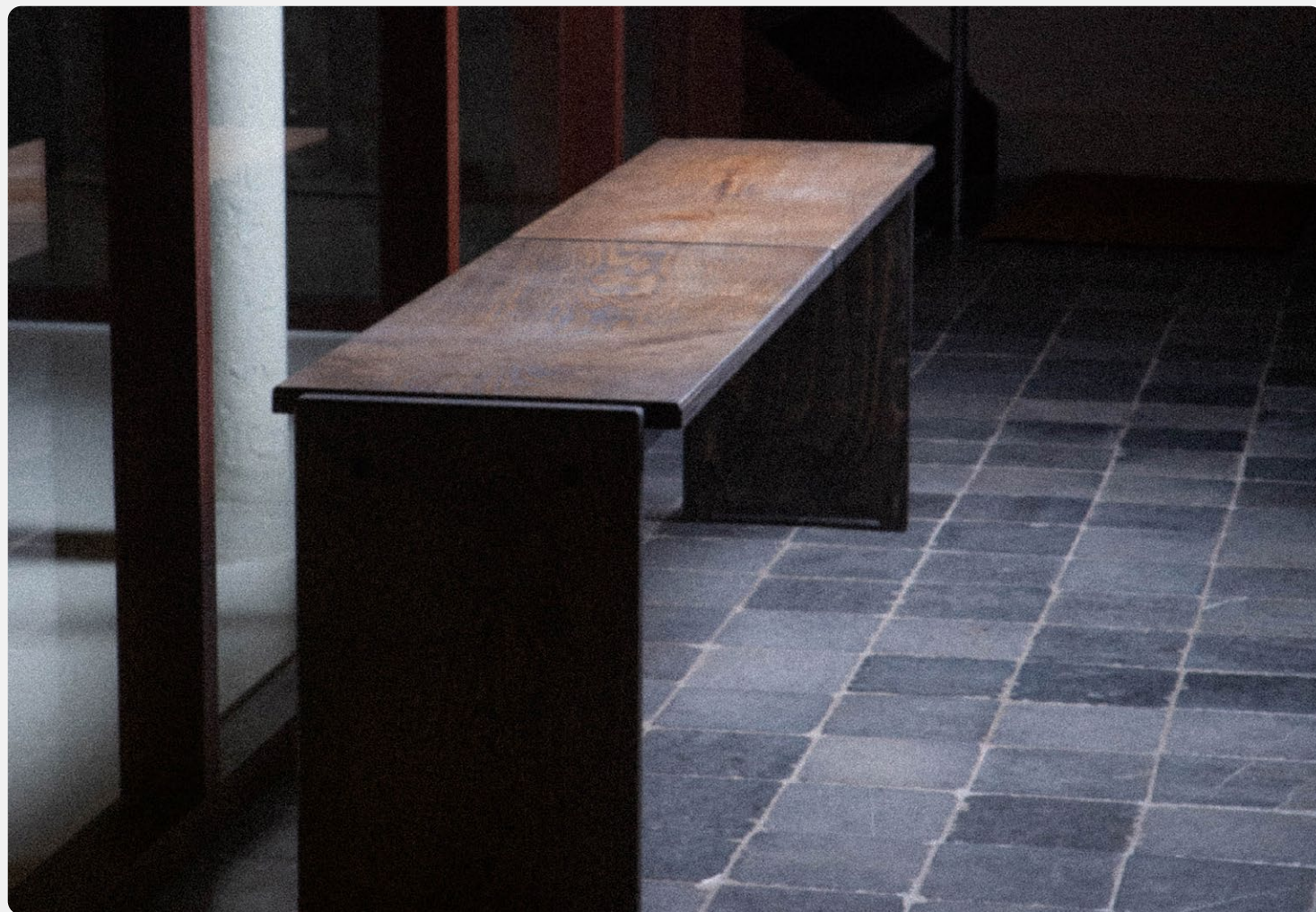
Model	Stool
Materials	Semi solid oak and powder coated steel
Dimensions	L40,5 x P30 x H43
Colors	Charcoal/Intense black/Pure





Model	Bench
Materials	Semi solid oak and powder coated steel
Dimensions	L160 x P30 x H43
Colors	Charcoal/Intense black/Pure

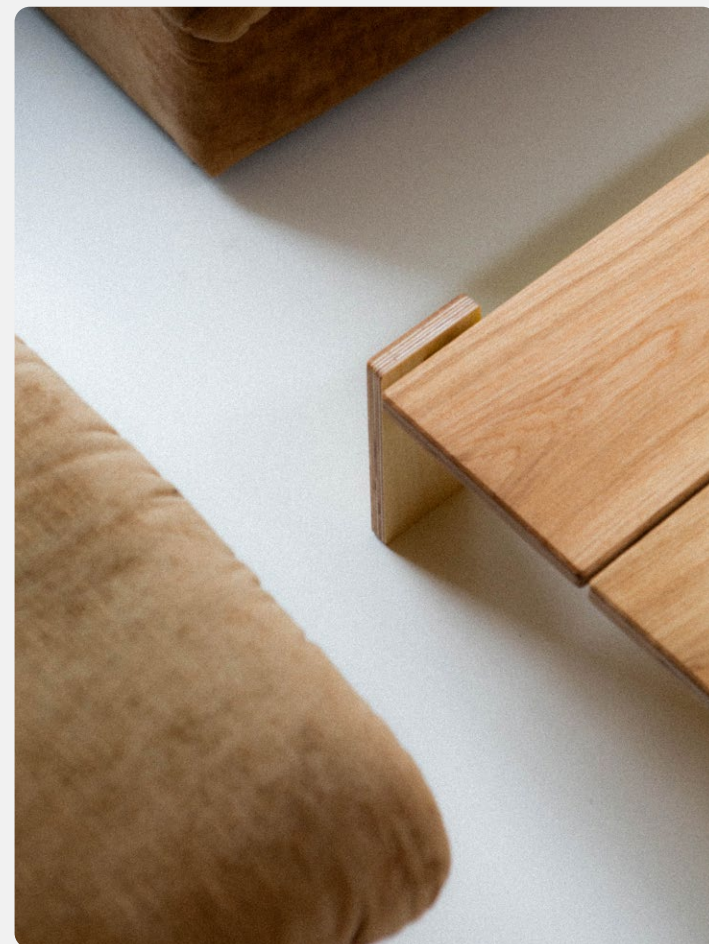






Model	Coffee table
Materials	Semi solid oak and powder coated steel
Dimensions	L82 x P69 x H24
Colors	Charcoal/Intense black/Pure







Stone 01

The project focuses on the revalorization of two materials : stone and metal.

Based on these elements, we produce a range of lighting fixtures that promote circularity, elegance, and functionality.



La Carrière du Hainaut is the largest ornamental stone quarry in Europe.

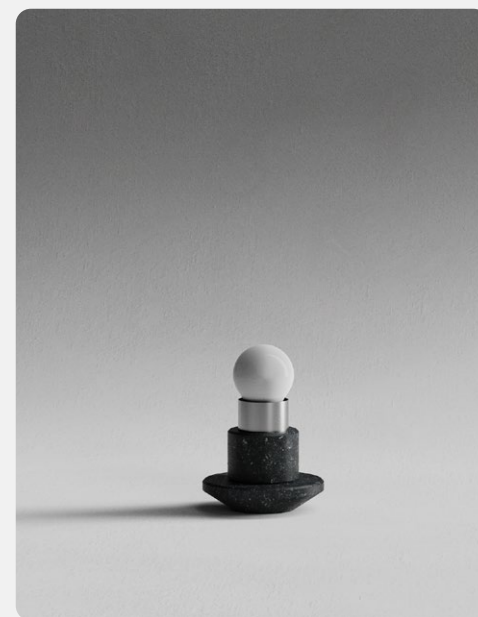
Each production, each order, consumes a portion of these rocks.

Imperfections, unwanted crusts, or fractures result in the company discarding vast amounts of nearly intact blue stone.



To offset these losses, the company engages in downcycling by transforming these offcuts into rubble. After analyzing their process, our focus has shifted to the previously ignored stone offcuts.

By mixing them with surplus inox elements from Newlazer, we transform them into a new lamp collection.



Side lamp P. 31

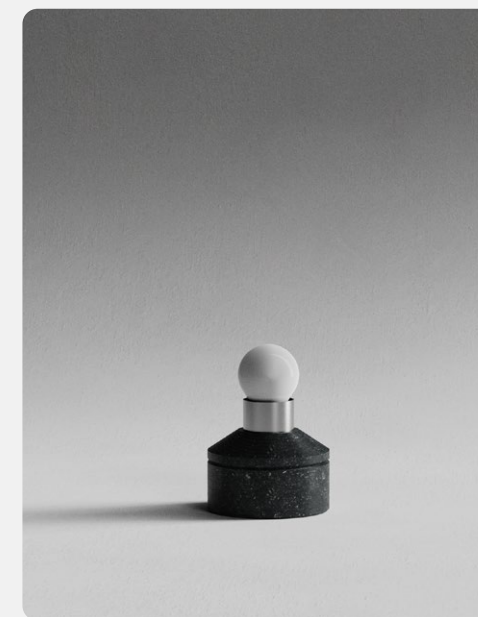
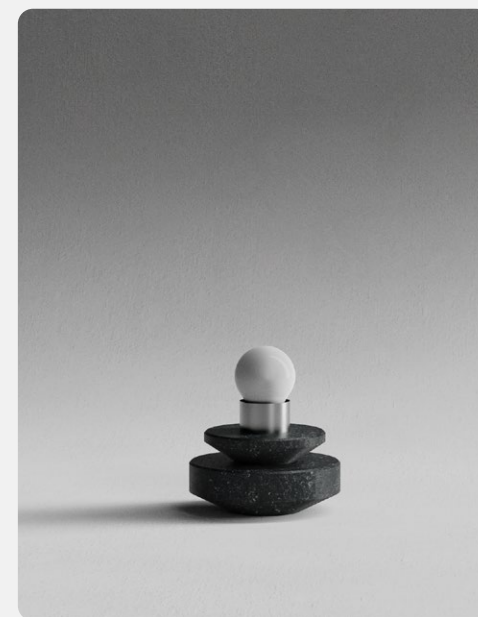
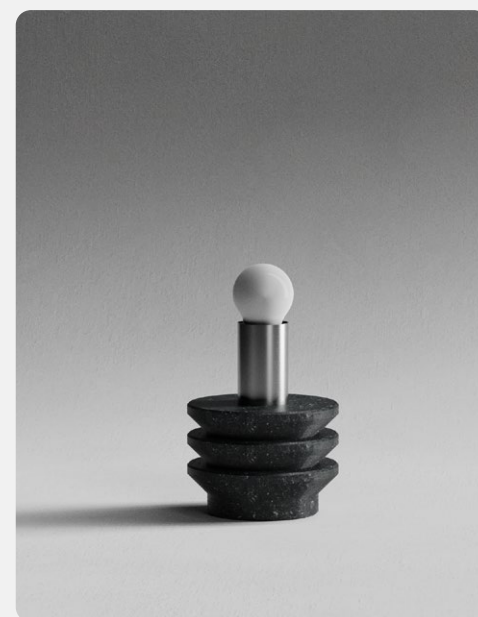
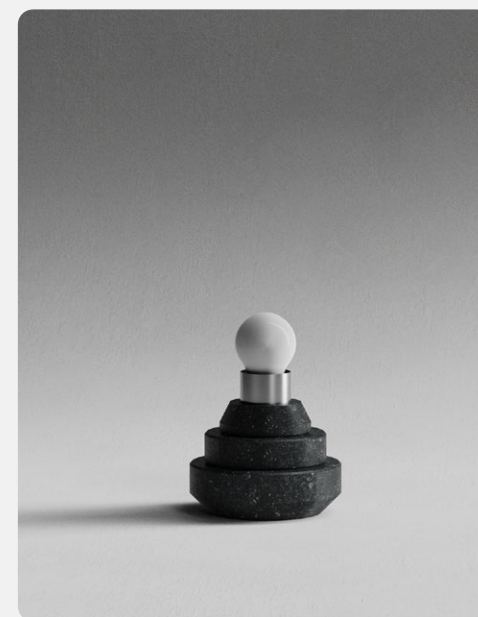


Table lamp P. 32



Wall lamp P. 33





Model	Side lamp
Materials	Blue stone / Inox
Dimensions	L10 H16
Colors	Dark blue



Model	Table lamp
Materials	Blue stone / Inox
Dimensions	L15 H20
Colors	Dark blue





Model	Wall lamp
Materials	Blue stone / Inox
Dimensions	L17 H10
Colors	Dark blue



Personnalisation



Conditions

We offer an initial consultation to assess the feasibility of the project.

We confirm together the final design before starting the production.

A minimum order volume of 50+ pieces is required.

Based on production & finishing conditions:

Collections
Shapes
Colors
Dimensions

Collections

We provide adaptation of our existing collections and can adapt your future pieces through our manufacturing conditions, model, and design.



Shapes

We can adapt shapes of every piece that is included in our objects. Removing or adding material can provide you with unique and exclusive pieces.



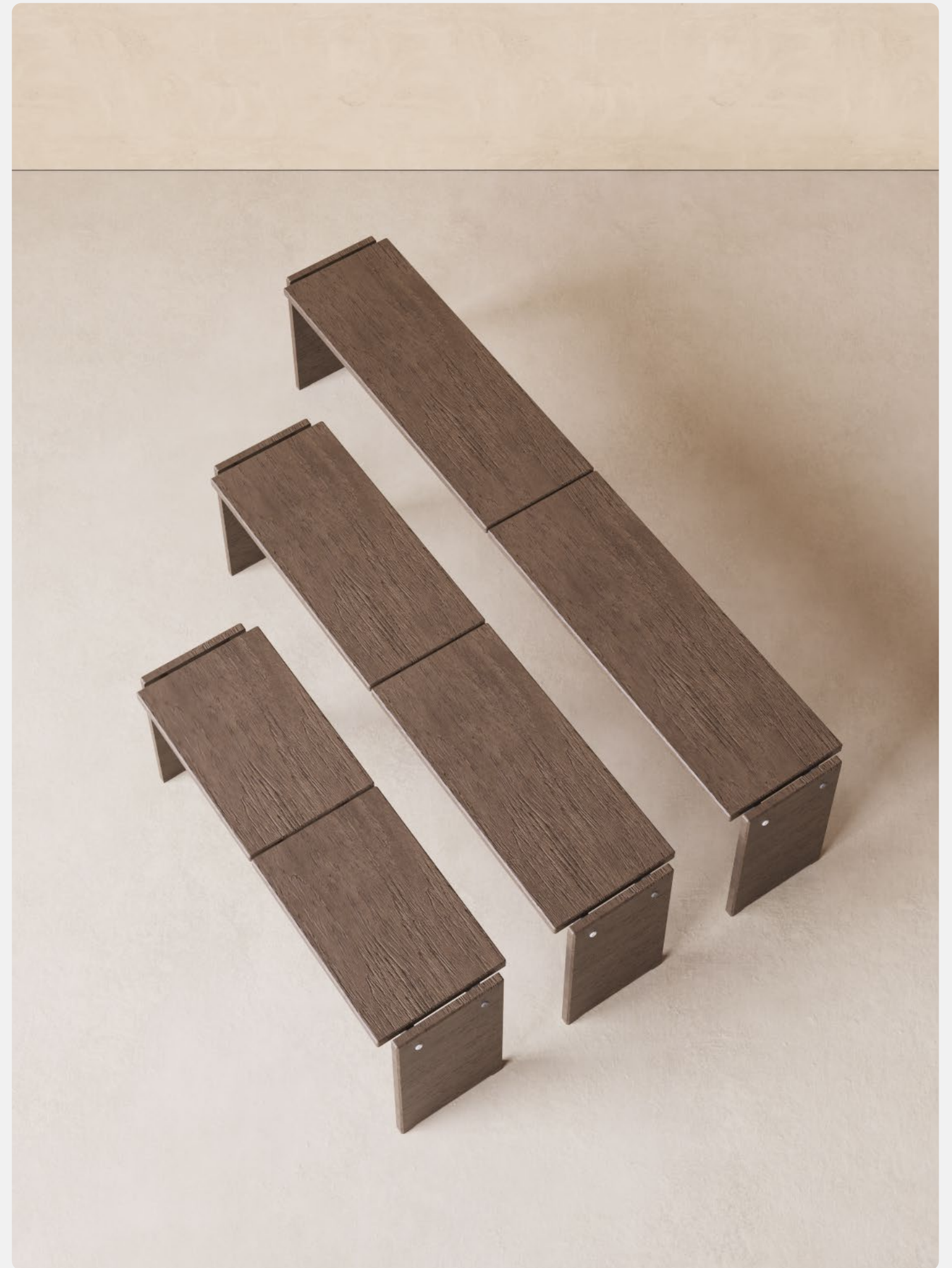
Colors

Incorporate the color identity of your project into your pieces through our color adaptation service.



Dimensions

Resize your furniture and object elements to perfectly suit your spaces and accommodate their specific needs.



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Production

Circularity

Durability

Responsible, functional, and customizable objects
and furniture at competitive prices.

duplex[®]



contact@duplexstudio.be

1291 Chaussée de Mons
1070 Anderlecht
Belgium