



ARCHITECTURAL  
HARDWARE

*Covegrove*

# Organic Essentials

EXCLUSIVE INNOVATIONS IN DESIGN

# INDEX

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New Exclusive Design  
Collections Launch.

October, 2024

Visit at:  
[www.jnf.pt/en/ross-lovegrove](http://www.jnf.pt/en/ross-lovegrove)



### 03

ABOUT  
JNF

JNF has been a trailblazer in architectural hardware, combining precision engineering with groundbreaking design for over 59 years. Our mission is to enhance both the functionality and aesthetic appeal of every space.



### 05

ABOUT  
ROSS LOVEGROVE

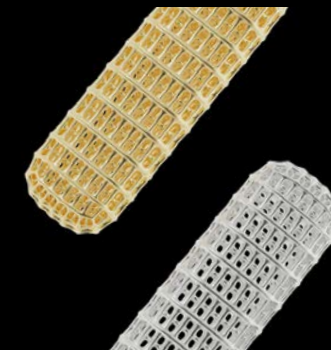
Ross Lovegrove's visionary approach blends organic shapes, cutting-edge technologies, and material innovation to create works that redefine what's possible in industrial design.



### 09

DESIGN  
PHILOSOPHY

At the heart of the LOVEGROVE x JNF collaboration is a philosophy that balances human ergonomics with the complexity of nature.



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ARCHITECTURAL  
COLLECTION

This collection challenges the conventions of architectural hardware, introducing elements that combine high precision engineering with a forward-thinking design aesthetic.

**ORGANIC ESSENTIALS**  
Exclusive innovations in design



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AEROFLOW  
COLLECTION

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The Aeroflow collection takes inspiration from nature's smoothest contours and aerodynamic structures.



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Drawing on the intricate structures of coral reefs, the Coral Synth collection captures the delicate balance of organic growth and architectural strength.



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The LOVEGROVE x JNF partnership represents the fusion of two design powerhouses, combining JNF's engineering expertise with Lovegrove's radical aesthetic vision.



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THE MAKING  
PROCESS

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From initial sketches to the final product, each piece in the LOVEGROVE x JNF collection undergoes a rigorous development process.



Elevating  
Homes,  
Inspiring  
Lives.

ABOUT



Based in Porto, Portugal, JNF is a leading producer of high-quality architectural hardware.

Since 1965, our company has been at the forefront of the construction hardware industry, continuously evolving with market demands. We offer a unique synergy, encompassing production, design, engineering, development, marketing, sales, and customer service. Our commitment to excellence is reflected in every product, meeting the highest

standards of quality and technical requirements.

Design excellence is paramount, ensuring our products are not only aesthetically pleasing but also functional and environmentally responsible. From thoughtful packaging to sustainable end-of-life solutions, we consider every detail.

Our partnerships with universities enable us to tackle complex challenges, underscoring our capability to meet demanding project specifications.

Our extensive catalogue of architectural hardware solutions addresses a wide range of needs, featuring rigorously tested and certified products. When we source items externally, we ensure they meet our stringent

quality and design criteria.

While our strategic direction may evolve, our dedication to delivering exceptional products and service remains unwavering. Our Sustainability Program is dedicated to lowering our footprint and cutting down on waste.

Beyond utilizing stainless steel, we apply eco-friendly, non-galvanic finishes, such as the titanium finish created through PVD (Physical Vapor Deposition) technology.

This ongoing dedication to innovation and sustainability has established us as a leader in eco-friendly practices.



■ Top image: JNF Headquarter  
Left image: JNF Head office / Factory  
Opposite page: Production Process

ABOUT

# Ross Lovegrove

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Born 1958, Ross Lovegrove graduated from Manchester Polytechnic with 1st Class BA Hons Industrial design in 1980 and took a Master of Design at the Royal College of Art, London in 1983. In the early 80's worked as a designer for Frog Design in West Germany on tech projects for companies like Sony and Apple; he later moved to Paris as a consultant to Knoll International, for which he created the highly successful Alessandri Office System.

Invited to join the Atelier de Nimes in 1984, alongside with Jean Nouvel and Phillipe Stark, he consulted amongst others: Cacharel, Louis Vuitton, Hermes and Dupont. Returning to London in 1986

he has since worked on projects for Airbus Industries, Kartell, Ceccotti, Cappellini, Moroso, Luceplan, Triade, Peugeot, Apple, Issey Miyake, Vitra, Motorola, Biomega, LVMH, Narciso Rodriguez, Yamagiwa, Tag Heuer, Swarovski, Herman Miller, Artemide, Renault, Japan Airlines, Toyo Ito Architects, Kenzo, Valextra, GH Mumm, LG, F1, Samsung and KEF.

His work is held in permanent collections of various design museums around the world including the Museum of Modern Art in New York, the Design Museum in London, the Vitra Design Museum in Basel, the Die Neue Sammlung, in Munich and the Centre Pompidou, in Paris.



■ Top image: Earth 2 Humanity light  
Bottom image: Ginkgo table

## Cultural Recognition

The Centre Pompidou recognised that Ross Lovegrove's unique vision of Design was representative of how the transition from the 20th to 21st Century would play out. In 2016 it hosted a 1000 square-meters exhibition of his work entitled 'Convergence'. How science, technology, art, anthropology and ecology can converge to drive a new but intelligent approach in design with truly new aesthetics and physiognomy.

Ross Lovegrove describes himself as an 'evolutionary biologist' but also a visionary and a sculptor of technology, defining a new genesis of how we can harness the incredible potential of planetary resources to create economic, fat free, lean and efficient products.

He was the first designer to present at TED Global alongside James Watson co-discoverer of DNA, Craig Venter, who mapped the human Genome and, Janine Benyus, the author of Biomimicry.

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■ Right image: Staircase DNA 2.0, staircase





## BIOMORPHIC PRINCIPLES

Ross Lovegrove stands at the intersection of nature, art, and technology, reshaping the landscape of industrial design. His work transcends traditional boundaries, blending the organic with the engineered, the aesthetic with the functional, in a manner that echoes the fluid, intricate beauty of natural forms. Lovegrove's approach challenges the rigidity of mass production, championing an ethos where design isn't merely about utility but about embodying life itself.

Inspired by biomorphism and organic essentialism, his creations draw directly from nature's own blueprints, finding elegance in curves, cellular structures, and flowing shapes that speak to the primal connection between form and environment. With cutting-edge materials and 3D printing technologies, Lovegrove sculpts objects that are as much works of art as they are industrial products, aiming to inspire and enrich the human experience.





# Nature Inspired Design

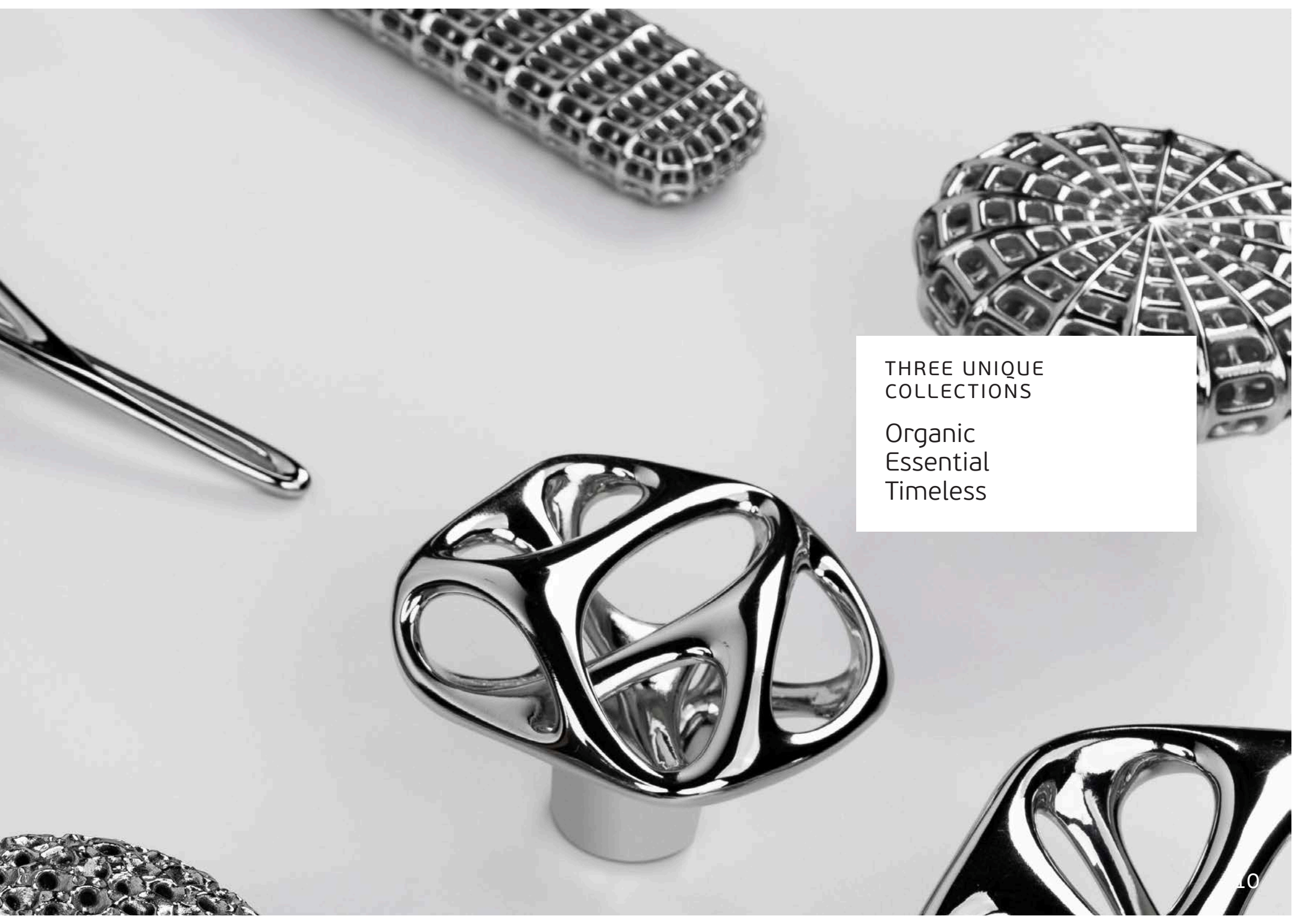
## BIOMIMICRY PRINCIPLES

The LOVEGROVE x JNF collection is deeply rooted in the principles of biomimicry. By mimicking nature's most efficient forms and systems, each design not only looks organic but functions in harmony with the environment. This approach allows us to create hardware that is not only aesthetically striking but also engineered for optimal performance.

## DESIGN PHILOSOPHY

The forms are born from an exploration of aerodynamics and organic growth, borrowing shapes from fluid motion, cellular structures, and evolutionary processes. We embrace complexity not only for its aesthetic value but for its ergonomic functionality, ensuring that each piece feels intuitive in the hand, while its sculptural presence enhances any space. This collection is a testament to the belief that modern design should do more than function—it should inspire. It challenges conventional hardware by fusing art and engineering, leaving behind purely utilitarian principles and entering the realm of crafted sophistication. By incorporating advanced materials and 3D printing, the collection pushes the boundaries of what architectural hardware can be, combining precision with the beauty of natural flow.





THREE UNIQUE  
COLLECTIONS

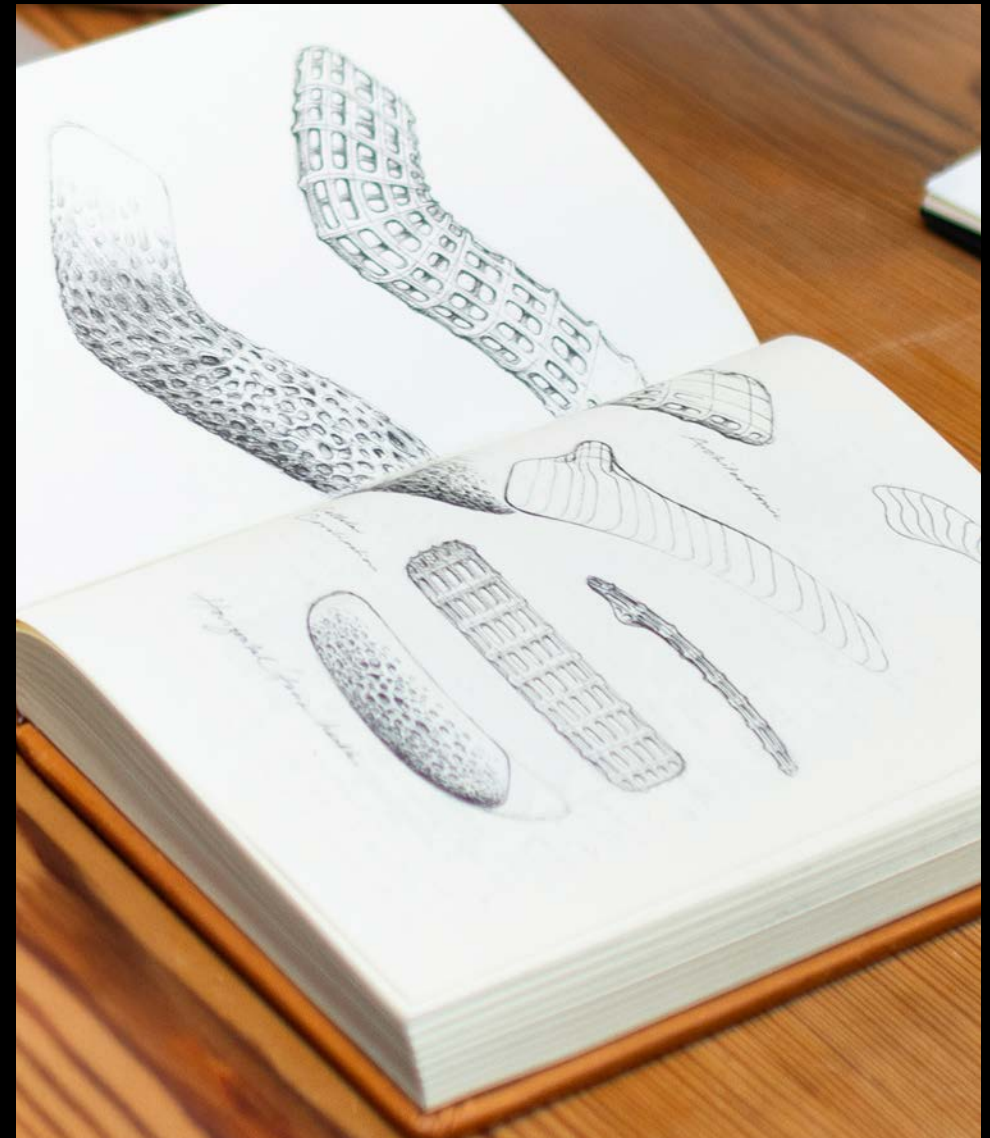
Organic  
Essential  
Timeless

THE CONCEPTUAL

# Hand-drawings

Ross Lovegrove approached this project with a visionary mindset, leveraging the transformative potential of 3D-printing technology, a production methodology which he pioneered over the last 20 years. Recognising the growing challenge of sameness in architectural hardware, Lovegrove sought to redefine the landscape of door handles and door accessories by exploring the limitless possibilities offered by advanced manufacturing processes. This collaboration is set to push the boundaries of design and craftsmanship, delivering a collection that epitomises

elegance, sophistication, and technological brilliance. This collection stands out as a perfect representation of our brand's commitment to innovation, sustainability, and contemporary design philosophies. The use of 3D-printing technology is a significant highlight, as it not only allows for the creation of intricate and unique designs but also embodies a sustainable approach to manufacturing. This method significantly reduces material waste, aligning with our dedication to environmental responsibility.



■ Right image: Ross Lovegrove's early sketches of the new JNF collections

## MECHANICAL FINISHES

# Premium Details

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Renowned for its durability and high corrosion resistance, STAINLESS STEEL 316L is an ideal choice for creating lasting, premium-quality products.

**HERO****MIRROR POLISHED TITANIUM .TP**

As the name already suggest, the surface is so shinning that can reflect the surrounding as one mirror. This finish is achevied with a very careful process and the result is very bright pieces with a lot of light.

**PURE****PURE GRAIN .PR**

This finish is achevied in the final phase of the polishing process. The product has a very smooth matte grain texture effect, developing the shape of the design with discrete shadows.

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■ Right image: Aeroflow Fixed Knob - Hero

SPECIAL FINISHES PVD

# Signature Colors

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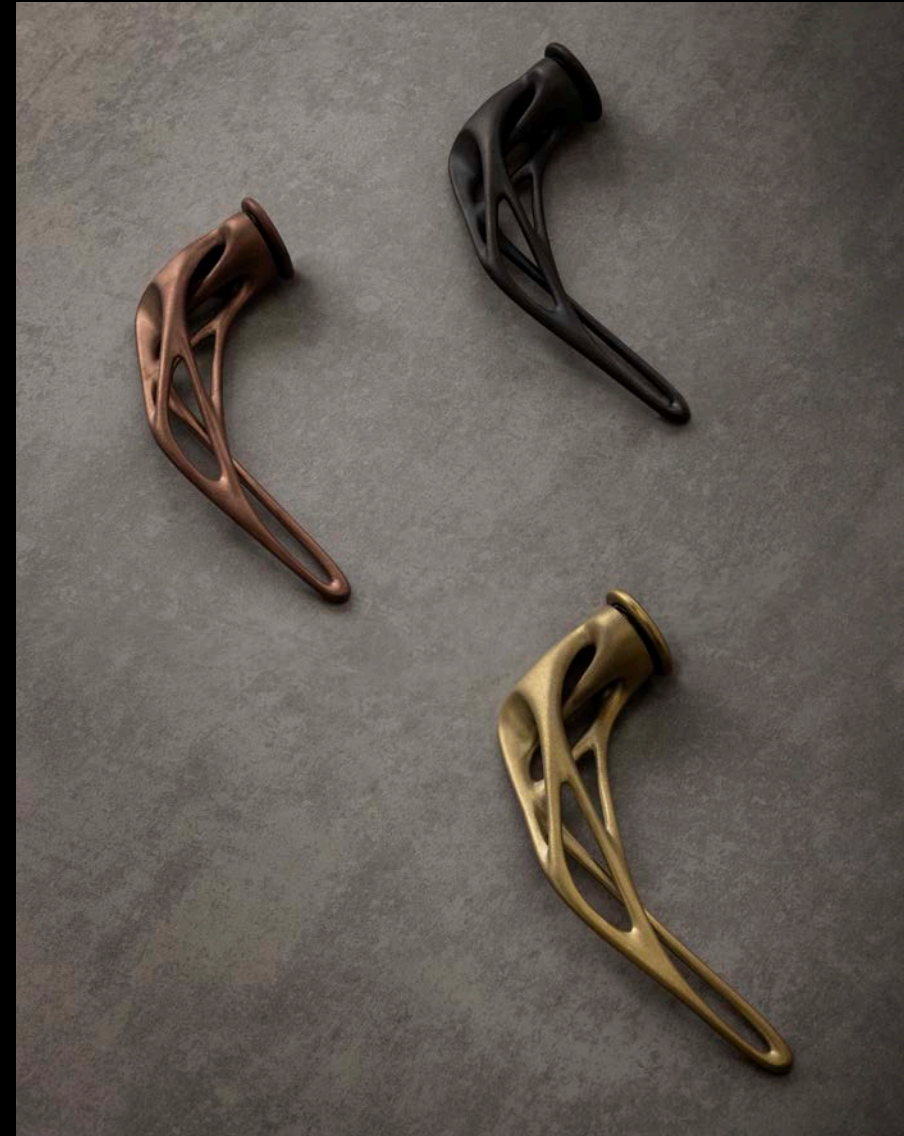
This is one exceptional high quality finish made exclusively by physical technology. Several metallic colors can be achieved with high resistance to abrasion and corrosion. This non pollution technology is widely used in the watchmaking industry.

## TITANIUM MIRROR

A polished titanium finish achieved through PVD technology, offering a sleek, mirror-like reflection that adds vibrant shine to each piece. Available in Gold, Champagne, Black, Copper, and Chocolate, it combines depth and sophistication with high durability.

## TITANIUM GRAIN

A smooth, matte titanium finish with a subtle grain texture and delicate shadowing in metallic colors like Gold, Champagne, Black, Copper, and Chocolate.



- Right image: Aeroflow Lever Handle - Titanium Grain Finishes



# Exclusive Product Design

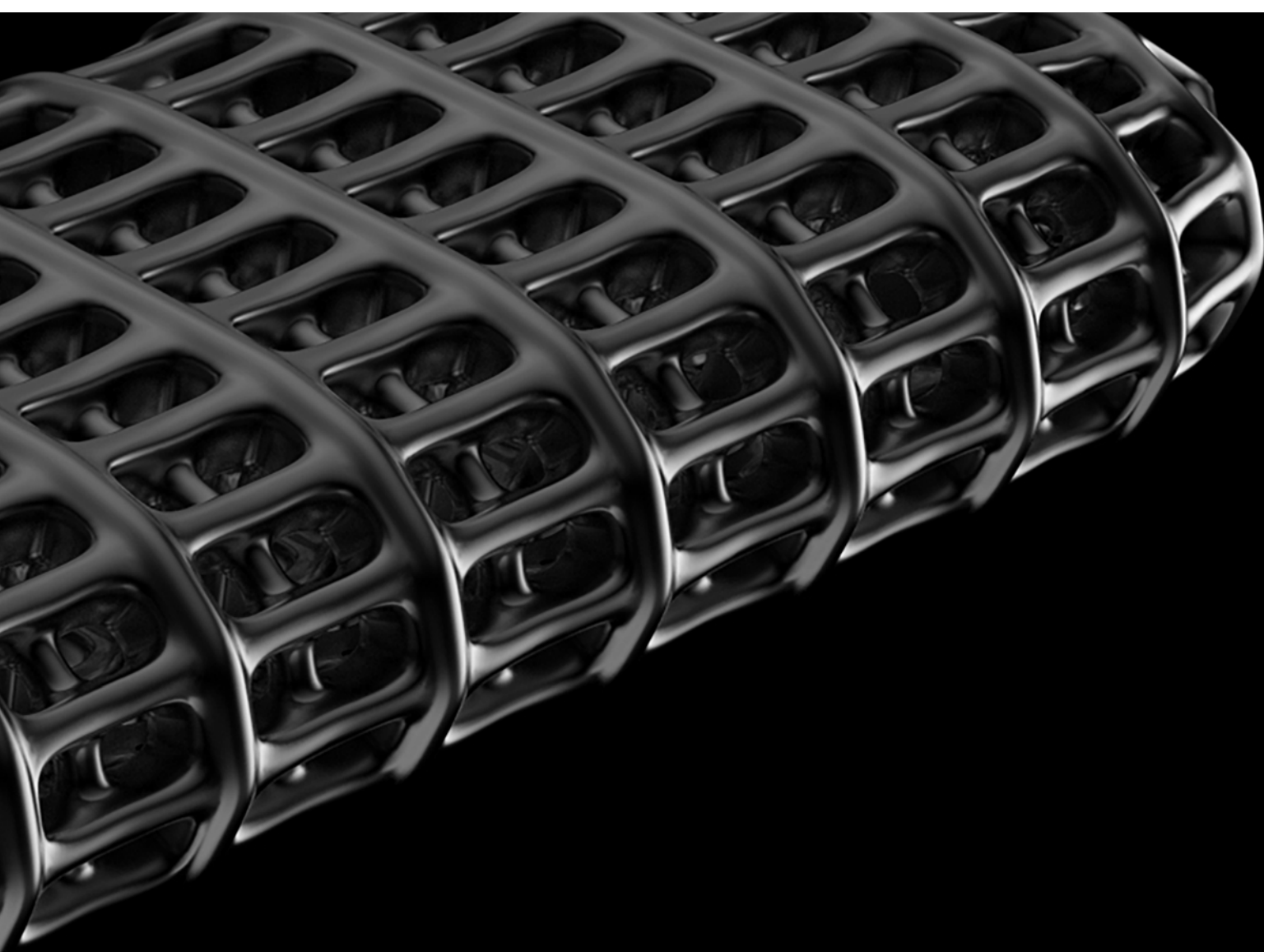
## ARCHITECTURAL COLLECTION

This design captures the intricate possibilities of additive manufacturing, weaving them into a refined architectural language. It offers a unique tactile experience, distinct from any other door handle, while maintaining a disciplined aesthetic that appeals to both large and small architectural projects. The handle embodies an elegant fusion of cultural depth and material precision, making it a timeless addition to spaces where long-term significance and thoughtful design are paramount.



Stainless Steel 316L  
PURE Finish  
Titanium PVD Black





Organic Precision  
Tactile Elegance  
Technologically Advanced

**LOVEGROVE  
DESIGN**

Design Inspired by Nature

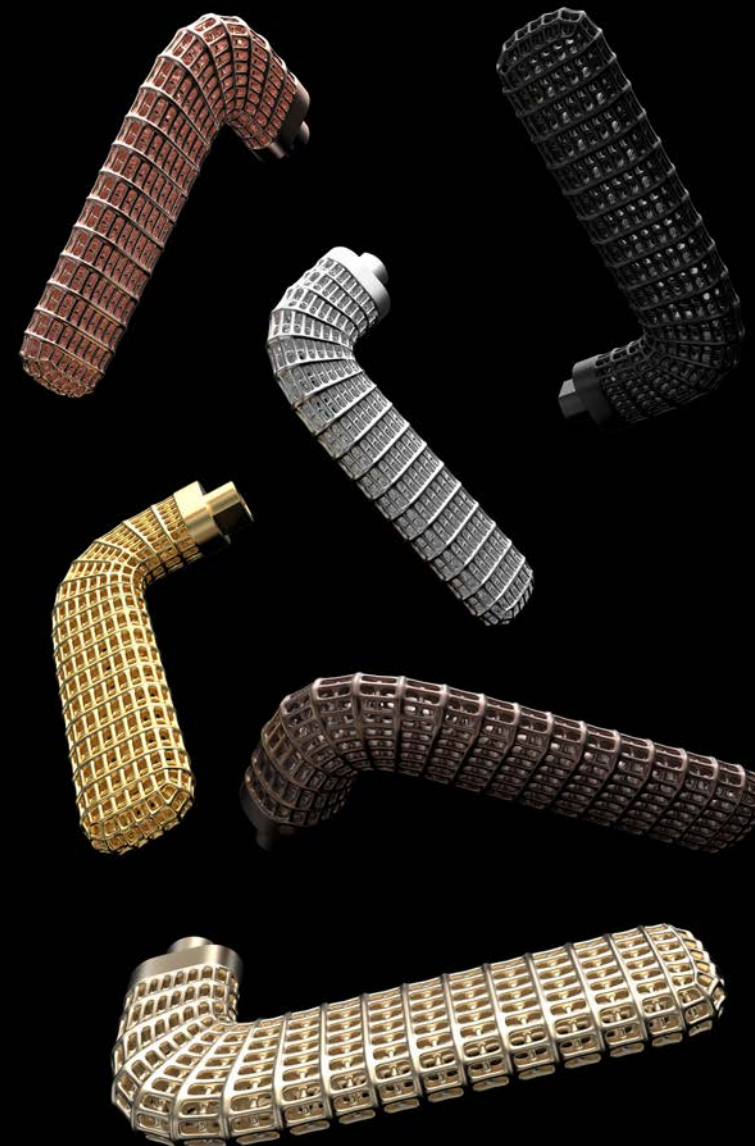
## ARCHITECTURAL

"Architectural celebrates the beauty born from organized structural complexity.

It pushes production boundaries, achieving a four-dimensional impact that defies conventional processes, making it truly contemporary.

Inspired by a desire to liberate the solid and infuse it with a sense of structural lightness, Architectural finds beauty in repetition. This collection merges industrial complexity with selective material integrity, creating designs that are both visually striking and physically tactile."

Ross Lovegrove



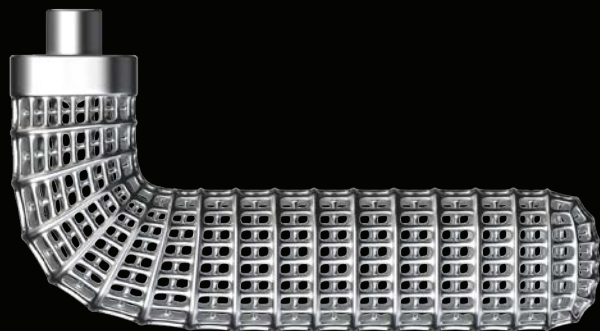
- Right image: Architectural Lever Handles  
Opposite page: Architectural Collection





AR.00.001 + AR.04.001 - HERO

# ARCHITECTURAL LEVER HANDLE



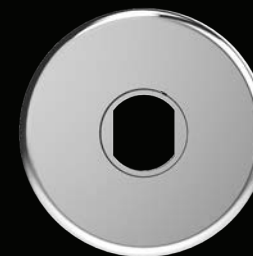
Spring rose with 50x5mm  
or unsprung 28x3mm

STAINLESS STEEL  
AISI 316L  
Available in 6 colors  
with mirror or mate  
finish.

Material Finish:



HERO PURE



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



BLACK TITANIUM



GOLD TITANIUM





AR.00.003 + IN.04.RPZ.05.M2 - HERO



# ARCHITECTURAL TURNING KNOB

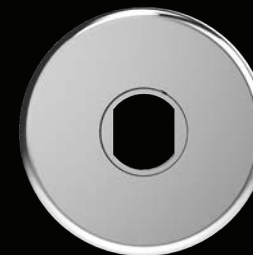
Spring rose with 50x5mm  
or unsprung 28x3mm

STAINLESS STEEL  
AISI 316L  
Available in 6 colors  
with mirror or mate  
finish.

Material Finish:



HERO PURE



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



BLACK TITANIUM



GOLD TITANIUM





AR.04.001 - HERO



# ARCHITECTURAL BATHROOM LOCK

Base with 50x5mm  
or 28x3mm

STAINLESS STEEL  
AISI 316L  
Available in 6 colors  
with mirror or mate  
finish.

Material Finish:



HERO PURE



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM

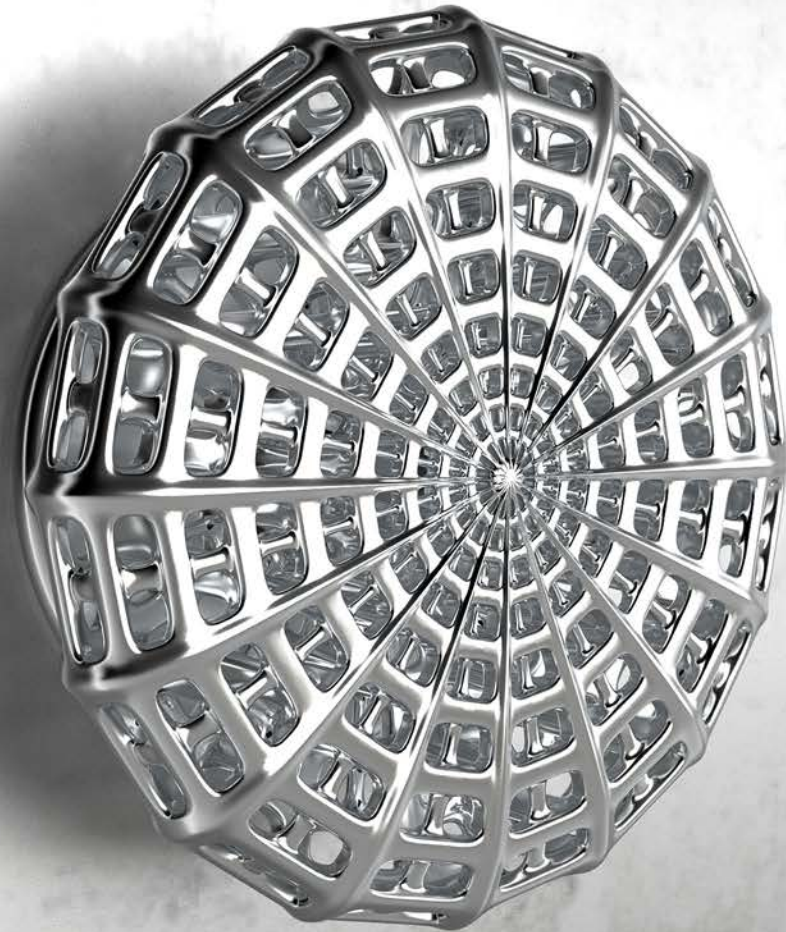


BLACK TITANIUM



GOLD TITANIUM





AR.00.005 - HERO



# ARCHITECTURAL

## FIXED KNOB

Base with 70x5mm

STAINLESS STEEL

AISI 316L

Available in 6 colors  
with mirror or mate  
finish.

Material Finish:



HERO

PURE



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



BLACK TITANIUM



GOLD TITANIUM





AR.00.006 + IN.04.RPZ.05.M2 - HERO

# ARCHITECTURAL

## FIXED KNOB

Base with 50x5mm

STAINLESS STEEL

AISI 316L

Available in 6 colors  
with mirror or mate  
finish.

Material Finish:



HERO

PURE



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



BLACK TITANIUM



GOLD TITANIUM





AR.22.001 - HERO

# ARCHITECTURAL FURNITURE KNOB



STAINLESS STEEL  
AISI 316L  
Available in 6 colors  
with mirror or mate  
finish.

Material Finish:

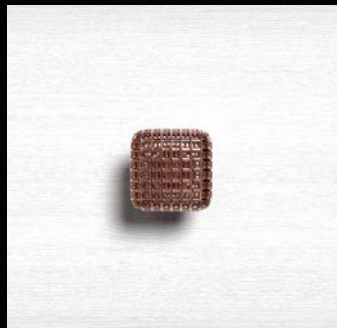


HERO

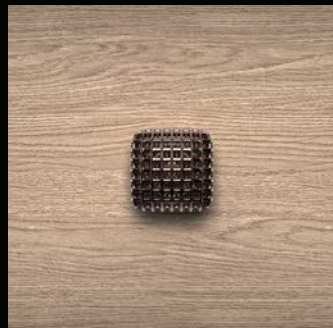
PURE



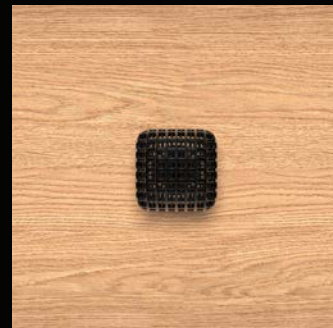
CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM

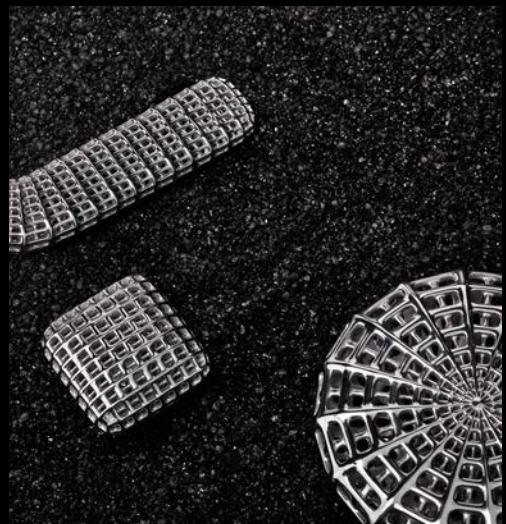


BLACK TITANIUM



GOLD TITANIUM









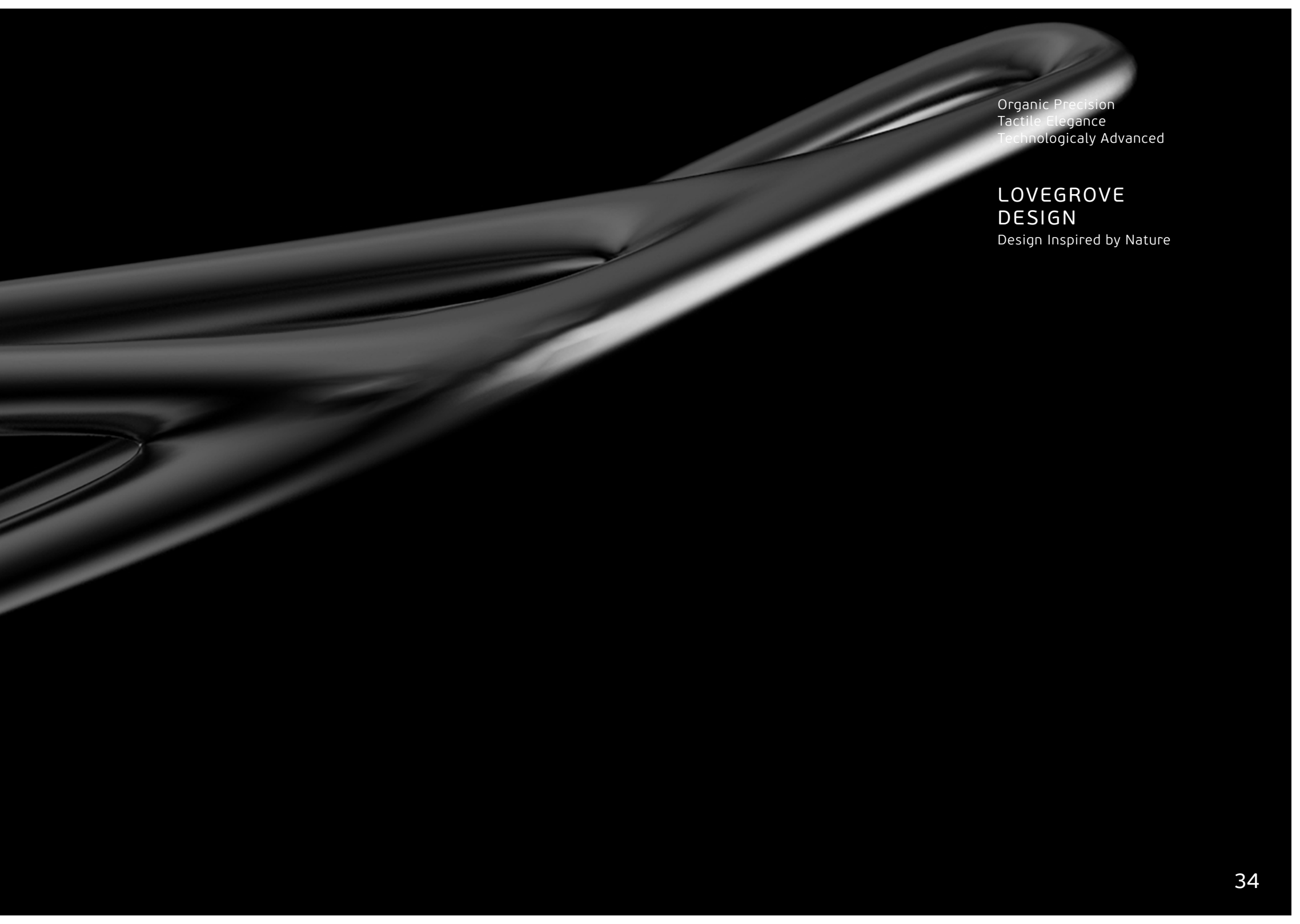
# Exclusive Product Design

## AEROFLOW COLLECTION

Inspired by the skeletal efficiency of avian evolution, this design seeks an extraordinary lightness. Drawing from the natural engineering of bird bone structures, it reinterprets minimal material use into a seamlessly 3D-printed metal form. The result is a topology-optimised masterpiece—dematerialised yet structurally resilient. This design exemplifies the future of lightweight, high-performance architectural elements, merging cutting-edge technology with nature's most efficient designs.



Stainless Steel 316L  
PURE Finish  
Titanium PVD Black



Organic Precision  
Tactile Elegance  
Technologically Advanced

**LOVEGROVE  
DESIGN**

Design Inspired by Nature

## AEROFLOW

"My objective with *Aeroflow* was to create a truly minimalist structure unlike anything in the industry. Inspired by bird skeletons and the natural forces of intelligent material reduction, it stands as the antithesis of solid mass.

This design embraces negative space, dematerialization, and the interplay of light and shadow on organic metal structures. It embodies the forefront of my work as a designer, aligning closely with my core philosophy. Each piece in the *Aeroflow* Collection possesses its own distinctiveness, transforming the daily act of opening a door or drawer into a harmonious experience, seamlessly integrating into your personal culture."

Ross Lovegrove



- Right image: AeroFlow Lever Handles  
Opposite page: AeroFlow Collection





AF.00.001 + AF.04.001 - HERO



# AEROFLOW

## LEVER HANDLE

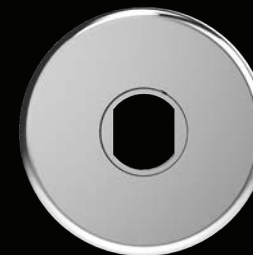
Spring rose with 50x5mm  
or unsprung 28x3mm

STAINLESS STEEL  
AISI 316L  
Available in 6 colors  
with mirror or mate  
finish.

Material Finish:



HERO PURE



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



BLACK TITANIUM



GOLD TITANIUM





AF.00.003 + IN.04.RPZ.05.M2 - HERO



# AEROFLOW

## TURNING KNOB



Spring rose with 50x5mm  
or unsprung 28x3mm

STAINLESS STEEL  
AISI 316L

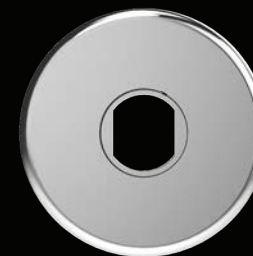
Available in 6 colors  
with mirror or mate  
finish.

Material Finish:



HERO

PURE



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



BLACK TITANIUM



GOLD TITANIUM





AF.04.001 - HERO

# AEROFLOW

## BATHROOM LOCK



Base with 50x5mm  
or 28x3mm

STAINLESS STEEL  
AISI 316L  
Available in 6 colors  
with mirror or mate  
finish.

Material Finish:



HERO PURE



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



BLACK TITANIUM



GOLD TITANIUM





AF.00.005 - HERO



# AEROFLOW

## FIXED KNOB

Base with 70x5mm

STAINLESS STEEL

AISI 316L

Available in 6 colors  
with mirror or mate  
finish.

Material Finish:



HERO

PURE



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



BLACK TITANIUM



GOLD TITANIUM





AF.00.006 + IN.04.RPZ.05.M2 - HERO



# AEROFLOW

## FIXED KNOB

Base with 50x5mm

STAINLESS STEEL

AISI 316L

Available in 6 colors  
with mirror or mate  
finish.

Material Finish:



HERO

PURE



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



BLACK TITANIUM



GOLD TITANIUM





AF.22.001 - HERO



# AEROFLOW

## FURNITURE KNOB



STAINLESS STEEL  
AISI 316L  
Available in 6 colors  
with mirror or mate  
finish.

Material Finish:



HERO

PURE



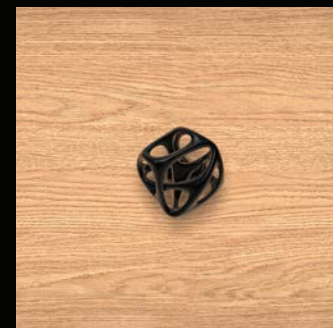
CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



BLACK TITANIUM



GOLD TITANIUM



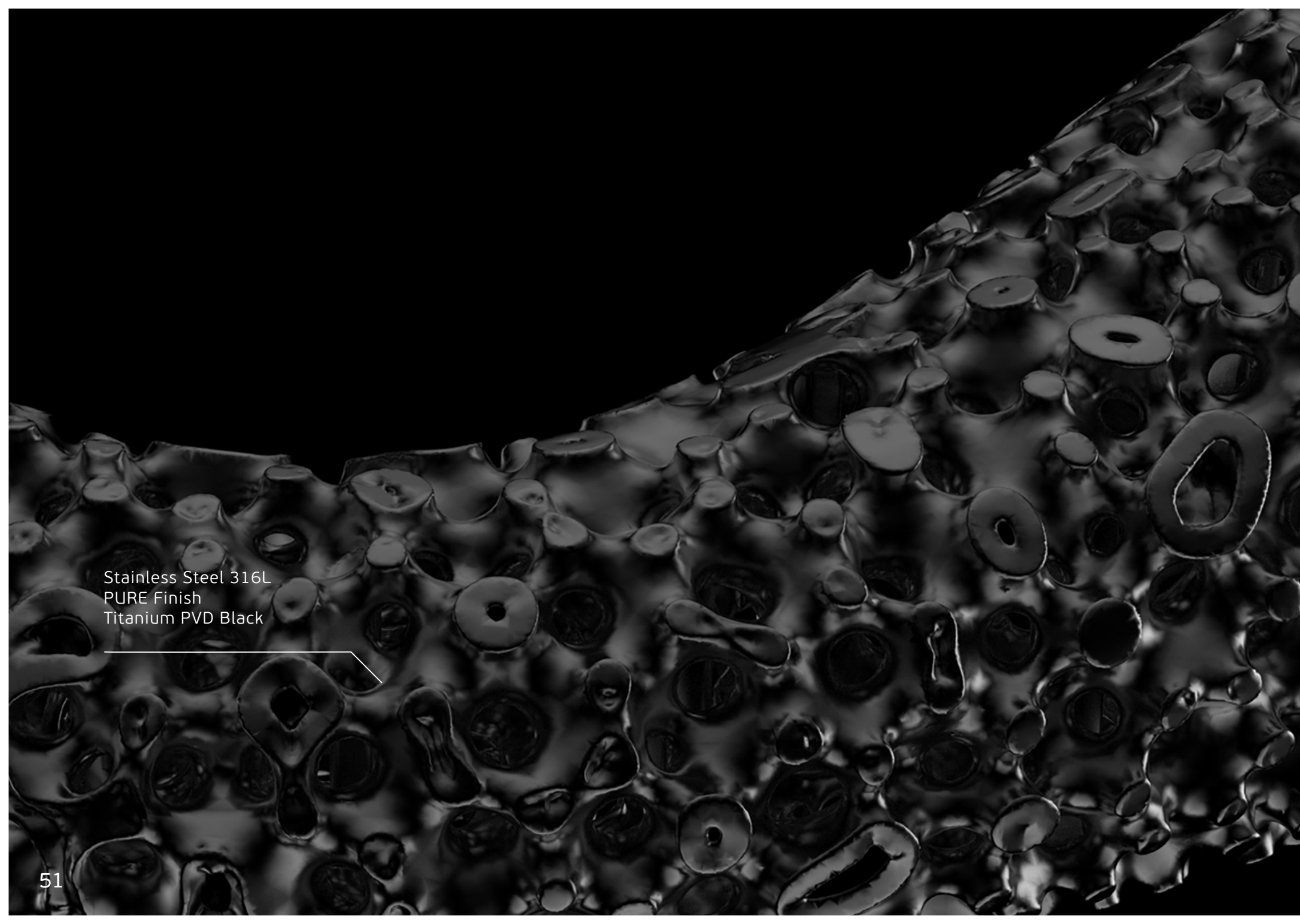




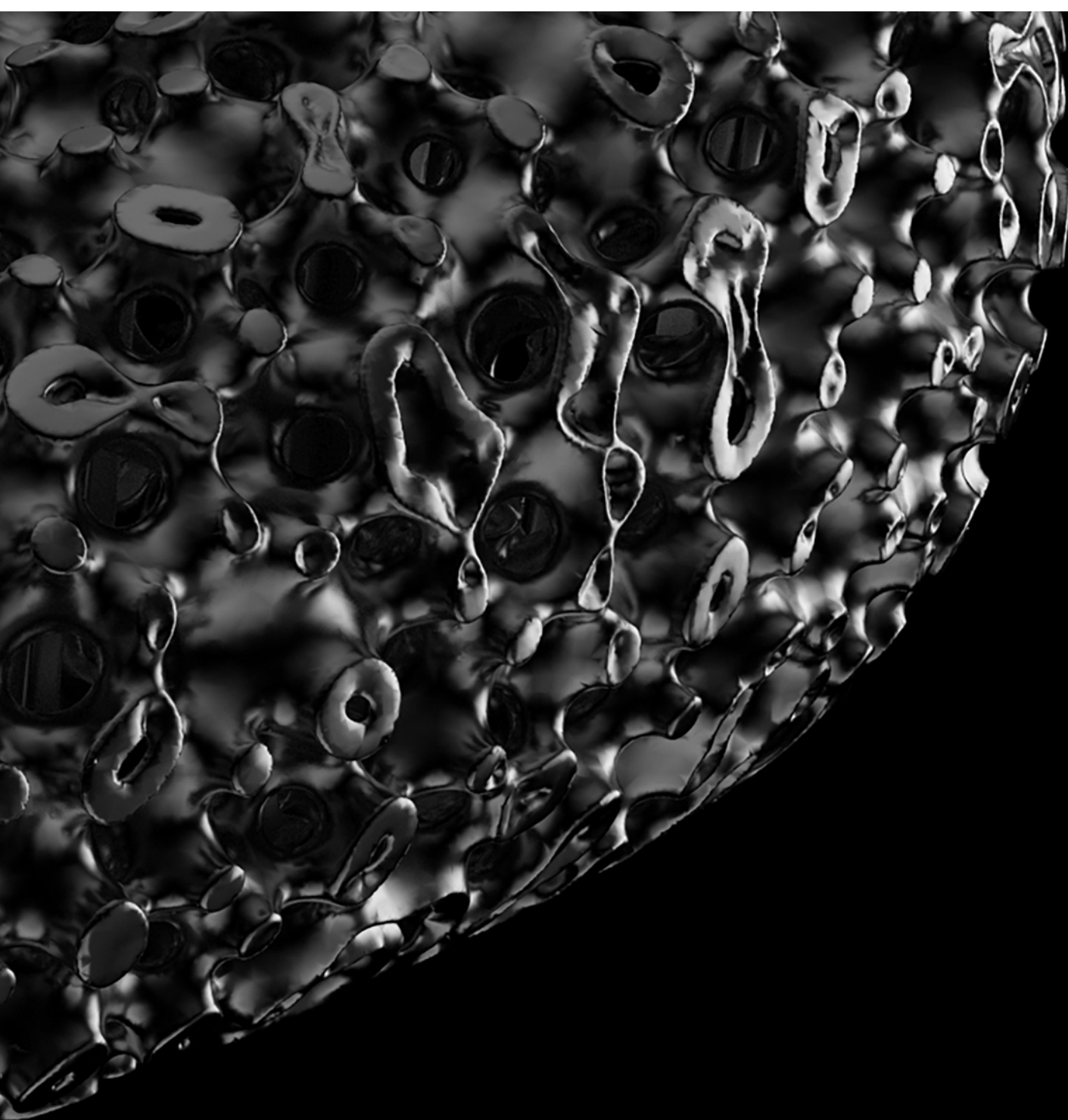
# Exclusive Product Design

## CORAL SYNTH COLLECTION

Inspired by the organic elegance of coral growth, this handle exudes a luxurious presence grounded in nature's beauty. The design's luxurious essence, derived from the Latin word *Luxus* (meaning blossoming), evokes the feeling of something growing naturally from the door. Its form is generous to the touch and reflects light like a finely crafted jewel. This piece complements the emerging trend of refined craftsmanship in high-end spaces, where beauty and functionality meet in perfect harmony.

A close-up, black and white photograph of a perforated metal surface. The surface is covered in a dense pattern of small, circular holes. The lighting creates a strong contrast, highlighting the raised edges of the holes and casting deep shadows in the recesses, giving the surface a three-dimensional, textured appearance. The overall tone is dark and industrial.

Stainless Steel 316L  
PURE Finish  
Titanium PVD Black



Organic Precision  
Tactile Elegance  
Technologically Advanced

## LOVEGROVE DESIGN

Design Inspired by Nature

## CORAL SYNTH

"The *CoralSynth* Collection transforms hardware into jewelry, elevating it from pure functionality into the realm of Object Art. These tactile, generous forms bring a new level of attention to detail, interacting harmoniously with the materials around them and enhancing the value of one's home.

Inspired by coral growth, each piece is voluminous and reflective, capturing light in a way that radiates natural beauty. Designed to lift the spirit of the user from consumer to collector, Coral Synth invites you to own and appreciate beauty in every corner and dimension of your space."

Ross Lovegrove



- Right image: CoralSynth Lever Handles  
Opposite page: CoralSynth Collection





SY.00.001 + SY.04.001 - HERO



# CORAL SYNTH

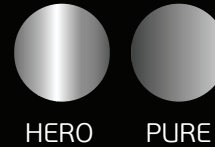
## LEVER HANDLE



Spring rose with 50x5mm or unsprung 28x3mm

STAINLESS STEEL  
AISI 316L  
Available in 6 colors with mirror or mate finish.

Material Finish:



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



BLACK TITANIUM



GOLD TITANIUM





SY.00.003 + IN.04.RPZ.05.M2 - HERO



# CORAL SYNTH

## TURNING KNOB

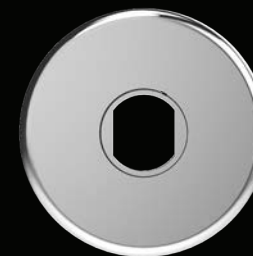
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HERO PURE



CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM



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GOLD TITANIUM





SY.04.001 - HERO

# CORAL SYNTH

## BATHROOM LOCK

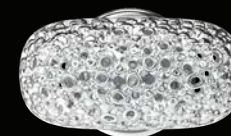
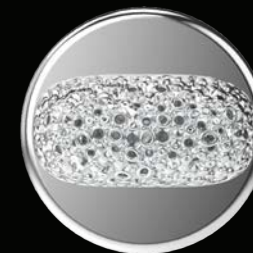
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SY.00.005 - HERO



# CORAL SYNTH

## FIXED KNOB

Base with 70x5mm

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Material Finish:



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BLACK TITANIUM



GOLD TITANIUM





SY.00.006 + IN.04.RPZ.05.M2 - HERO



# CORAL SYNTH

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Material Finish:



HERO

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COPPER TITANIUM



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GOLD TITANIUM





SY.22.001 - HERO

# CORAL SYNTH

## FURNITURE KNOB

STAINLESS STEEL  
AISI 316L  
Available in 6 colors  
with mirror or mate  
finish.



Material Finish:



HERO



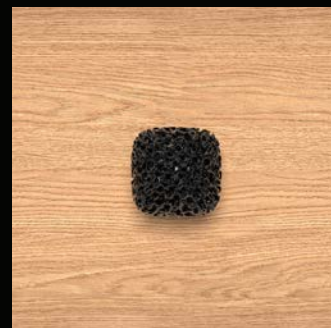
CHAMPAGNE TITANIUM



COPPER TITANIUM



CHOCOLATE TITANIUM

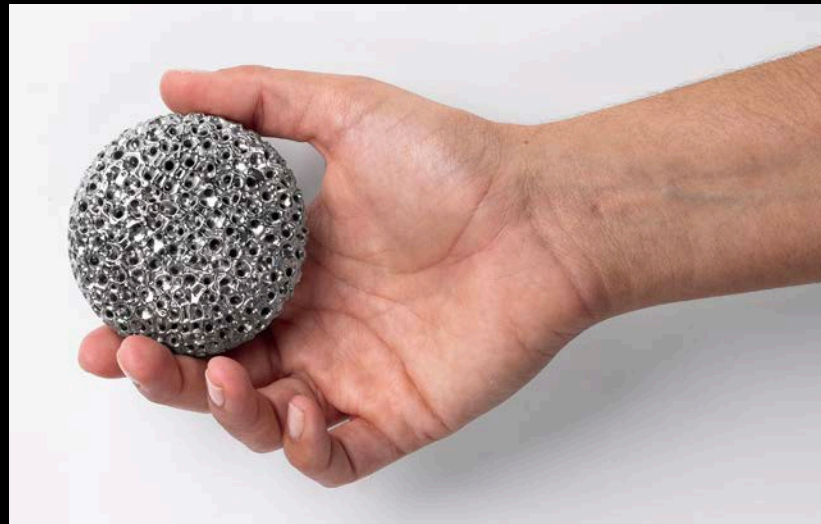


BLACK TITANIUM



GOLD TITANIUM







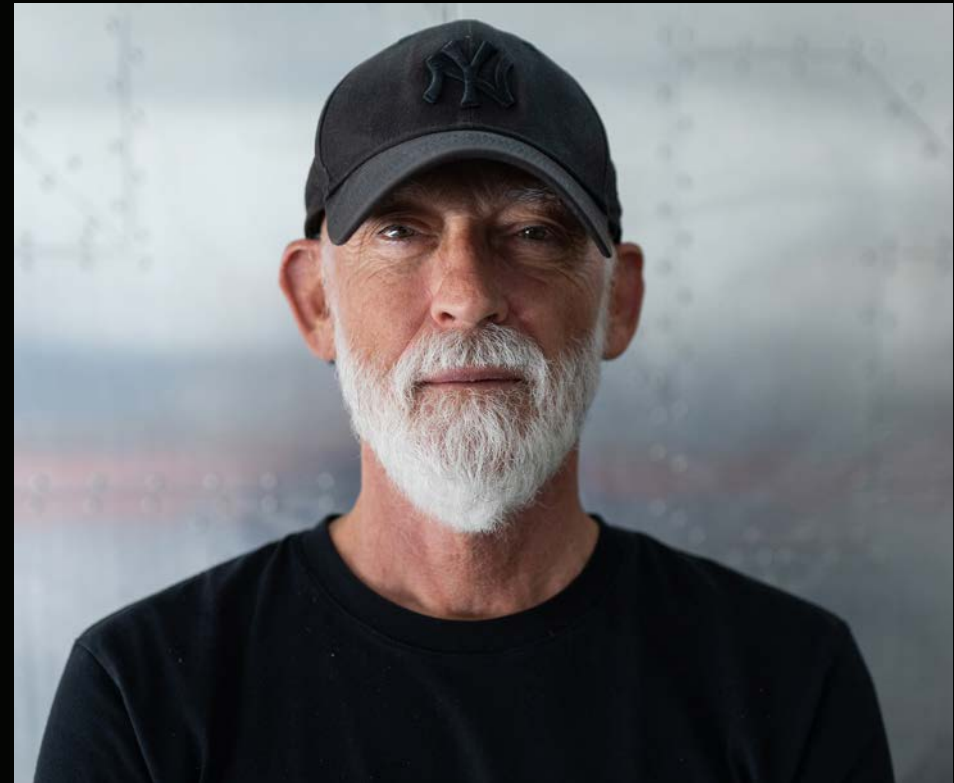
A STRONG COMMITMENT TO THE

# Partnership

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The journey to create the LOVEGROVE x JNF collection was nothing short of transformative. From the earliest sketches to the final product, this collaboration took us across three cities—London, Porto, and Dubai—unifying our teams into a collective force that brought together diverse expertise, creative vision, and an unyielding commitment to excellence.

At the outset, the challenge was clear: how could we craft a collection that not only pushes the boundaries of design but also leverages the most advanced technologies in the world? Along the way, we encountered obstacles that forced us to rethink our approach. But with each challenge, we found new opportunities for innovation, refining our processes and discovering cutting-edge techniques that ultimately elevated our work to an entirely new level.



Utilising precision engineering and advanced 3D printing technologies, we were able to realise designs that were previously thought impossible. The intricate organic forms, inspired by nature yet grounded in functional elegance, became a reality thanks to the dedication and expertise of our teams across continents.

What began as a concept has now materialised into a collection that has already won prestigious design awards, even before its official market launch. This recognition serves as a testament not only to the strength of the partnership but also to the relentless pursuit of perfection that defined every step of the journey.

From the workshops of Porto, the design studios of London, to the innovation hubs in Dubai, the LOVEGROVE x JNF collection stands as a symbol of what can be achieved when creativity meets cutting-edge technology. Together, we've forged a path that merges art, technology, and craftsmanship into something truly exceptional.



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