

Nozzle UP

Custom 3D-Printed Ergonomic Office Chair



Table of Contents.

Introduction	3
TRIBOO x Nozzle	5
Designed around you	6
From body scan to personalised chair	7
Step 1: 3D body scan	8
Step 2: Data becomes ergonomic support	9
Step 3: 3D printed local production	10
Step 4: Delivery and setup	11
Step 5: Adapt, repair and return	12
One personalised fit. Two ways to move	13
Nozzle UP Rocking Chair	14
Nozzle UP Wheels	15
Materials designed for another life	17
Complete the workspace	18
Let's Get Moving Together	20



Every year, more than 11 billion kilos* of furniture is discarded across Europe

90% of which is burned, sent to landfill or lost forever, while new furniture continues to be manufactured from virgin materials and transported across the world.

Only 10% is recycled.

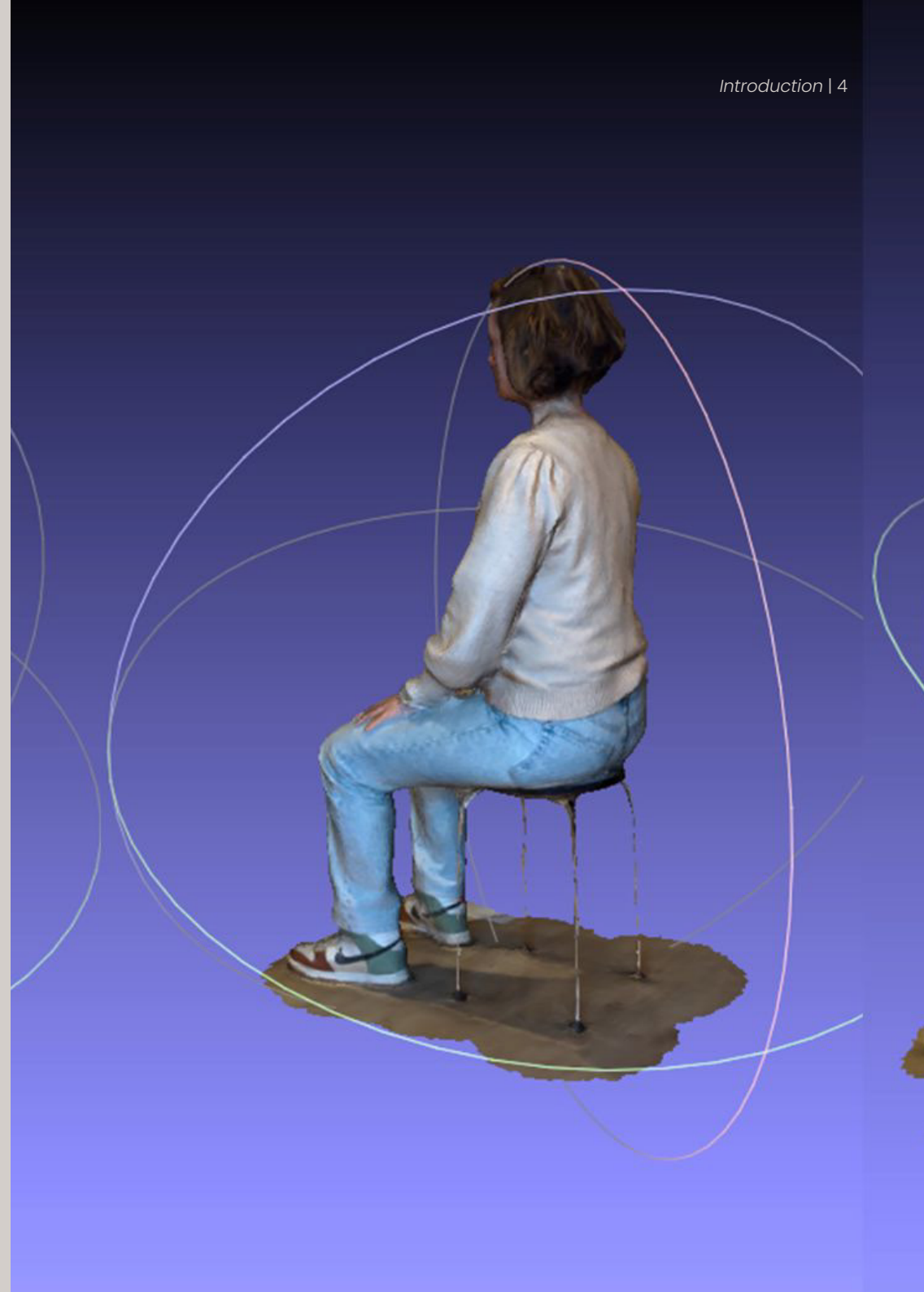
It's time for a different approach

* Source: Circular economy in the furniture industry: overview of current challenges and competences needs, FURN360

Ergonomics starts with the person

Office workers spend much of the day sitting, yet even a chair labelled “ergonomic” does not always provide the right support. Conventional chairs are designed around average measurements and often rely on users correctly navigating numerous controls. In practice, many chairs remain poorly adjusted, contributing to discomfort in the neck, back and shoulders.

Drawing on more than 20 years of experience in occupational therapy and ergonomics, each chair is shaped around the individual’s body, posture and support needs, combining personalised ergonomics with circular materials and long-term adaptability.





TRIBOO x Nozzle

A shared vision for healthier, circular workplaces

Nozzle and TRIBOO have joined forces to bring truly personalised ergonomic seating to the Dutch market. The partnership combines Nozzle's expertise in occupational therapy, body scanning and custom chair production with TRIBOO's knowledge of circular workplace design and the Dutch corporate market.

Together, they offer a chair that is made to fit the individual, built from upcycled materials and designed to adapt, be repaired and remain in use for as long as possible.

Organisations can arrange an introduction and personal 3D body scan through TRIBOO. The scan data is then used to 3D print the chairs locally.

Designed around you

The Nozzle UP reverses the conventional approach to ergonomic seating. Instead of asking the body to adapt to a standard chair, each chair is designed around the individual's measurements, posture and support needs.

Its geometry is tailored to factors including shoulder width, sitting height and spinal curvature. The result is personalised support without complicated controls or constant manual adjustment. A unique rocking effect encourages natural movement while sitting, helping the body remain active throughout the day.

UP consists of 17 modular components that can be individually replaced, repaired or adapted as the user's needs change. The chair is 3D-printed locally using upcycled post-consumer polypropylene and can be returned for recycling at the end of its useful life.





From body scan to a chair made for you

Creating an UP chair begins with the person who will use it. Through a simple 3D body scan, individual measurements are translated into a chair geometry tailored to the user's body, posture and support needs.

From digital fitting and local production to delivery, adjustment and ongoing care, Nozzle and TRIBOO manage every stage of the process. The result is more than a made-to-measure chair. It is a long-term ergonomic solution designed to adapt, be repaired and remain in use as needs change.

The five steps

1. 3D body scan
2. Personalised fitting
3. Local production
4. Delivery and setup
5. Adapt, repair and return

STEP ONE:

3D Body Scan: It starts with you

A simple guided scan captures the measurements needed to understand the user's unique body shape. Shoulder width, sitting height, spinal curvature and overall proportions are recorded in just a few minutes. The scan data is sent securely to Nozzle, providing the precise foundation for a chair designed around the individual rather than standardised averages.



STEP TWO:

Personalised fitting

Data becomes ergonomic support. Nozzle's fitting technology translates the scan data into an individual chair configuration. The geometry of the seat and backrest is determined according to the user's anatomy, posture and specific support needs. This removes the need for complicated manual controls and ensures the chair provides the right support from the moment the user sits down.

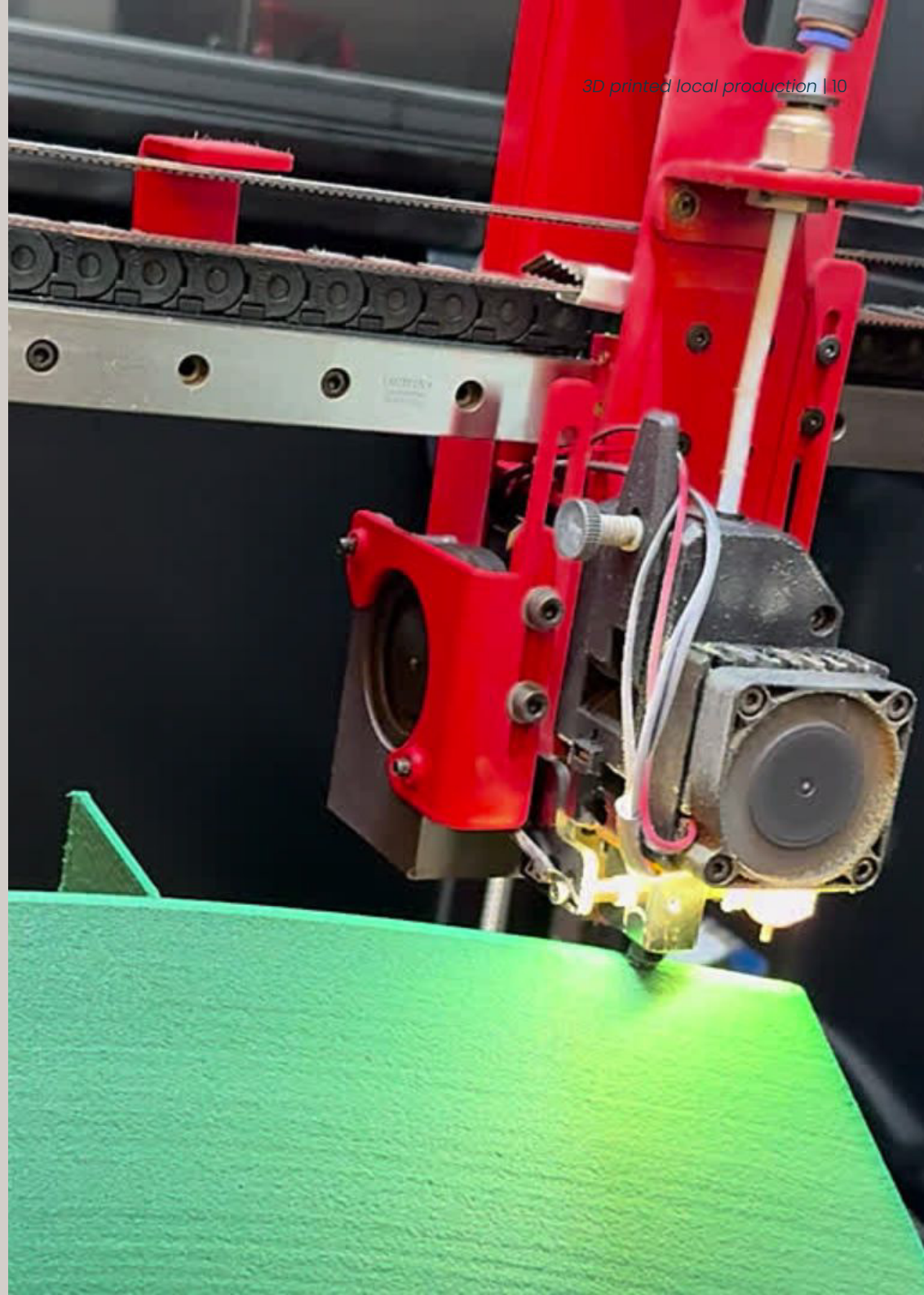


STEP THREE:

3D Printed Local Production

Each chair is 3D printed locally. Its 17 modular components are 3D printed using upcycled post-consumer polypropylene, allowing every chair to be made according to the user's personal configuration.

Local, on-demand production reduces transport and avoids unnecessary stock while creating value from material that would otherwise become waste.



STEP FOUR:

Delivery and setup

Ready to support you, TRIBOO coordinates the delivery and fitting of the chair in the Netherlands. The chair is set up by the TRIBOO team, ensuring it is correctly positioned and ready for use.

Because its essential geometry has already been tailored to the individual, the user can experience personalised ergonomic support without navigating numerous levers and settings.



STEP FIVE:

Adapt, repair and return

The UP chair is designed to remain useful as the user's body, needs or working environment change. Its modular construction means individual components can be adapted, reprinted or replaced without discarding the complete chair. When the chair is no longer needed, its components can be returned and recycled into material for future production.



One personalised fit. Two ways to move.

Every Nozzle UP chair is created through the same personalised 3D scanning and fitting process.

Choose the model that best suits the user's working style and environment:

Nozzle UP Rocking Chair

Designed for active sitting with a gentle rocking movement that encourages natural changes in posture. Its distinctive base supports subtle movement through the feet, helping the user stay engaged while seated.

Nozzle UP Wheels

A mobile version of the personalised UP chair, equipped with five swivel castors and an active synchronous mechanism. It offers greater freedom of movement around the workspace while supporting dynamic, balanced sitting.



Nozzle UP Rocking Chair



MATERIAL

- r-UltraMarathon 3D® PP GF filament
- 100% upcycled post-consumer waste
- 30% glass-fibre reinforced
- Steel base with powder-coat finish
- Cushion with Circlefoam

COLOURS

- Full matte black
- Green (seat and backrest green, other components black)
- Beige cushion, customisable in colour of choice

CIRCULAR DESIGN

- Modular construction, individually replaceable components
- Mechanically assembled, no glue, no chemical bonding
- All 3D-printed components fully re-grindable and reprintable at end of life
- Nozzle take-back scheme for used chairs
- $\pm 50\%$ lower CO₂ than a conventional office chair

PERFORMANCE

- 100% custom-made through 3D body scan
- 14 validated ergonomic parameters
- Ergonomist-designed by Aline Ollevier (20+ years in spinal rehabilitation)
- Unique rocking chair effect for natural movement through tip-toeing
- No manual adjustments required
- Ergonomic correction built into design

CUSTOM DIMENSIONS

- A simple smartphone video is all it takes to build a full 3D body scan.
- Data is sent directly to Nozzle, validated and prepared for chair fitting.
- The process is short and physical for the user, and produces the complete data set needed to design a chair that fits without a single adjustment.
- If the user's body changes over time, individual parts can be reprinted to match, so the chair evolves with the person who sits in it.



Nozzle UP Wheels

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Materials designed for another life

01. Upcycled polypropylene

The chair's 3D-printed components are produced from upcycled post-consumer polypropylene. At the end of their useful life, these parts can be reground and used as material for new components.

02. CircleFoam comfort seat

The soft seat is made using CF-Comfort foam by CircleFoam, a circular comfort foam created from reused materials. It provides lasting comfort and resilience, with a lower environmental impact than conventional foam. The material is flame-retardant and free from harmful substances.

03. Made to come apart

The chair consists of 17 modular components that are mechanically assembled without glue or chemical bonding. Individual parts can be removed, repaired, adapted or replaced without discarding the complete chair.



Complete the workspace

A chair designed around the individual deserves a workspace built on the same principle.

TRIBOO combines a lightweight Greengridz® desktop with an electric height-adjustable frame, allowing users to move easily between sitting and standing throughout the day.

An EverUse acoustic desk screen, made with a Greengridz® core and sound-absorbing filling from recycled denim, helps create a quieter and more focused working environment.

Together, the chair, desk and screen form a complete circular workspace designed around the person and made to last.



We don't sell furniture, we solve problems.

Let's get moving together

Our professional team is ready to support you with expert advice, circular expertise, and a hands-on approach. Together, we design your project using fewer materials, less CO₂ emissions, and less waste. Build with us toward a future without waste and make the circular economy visible to everyone in your space.

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