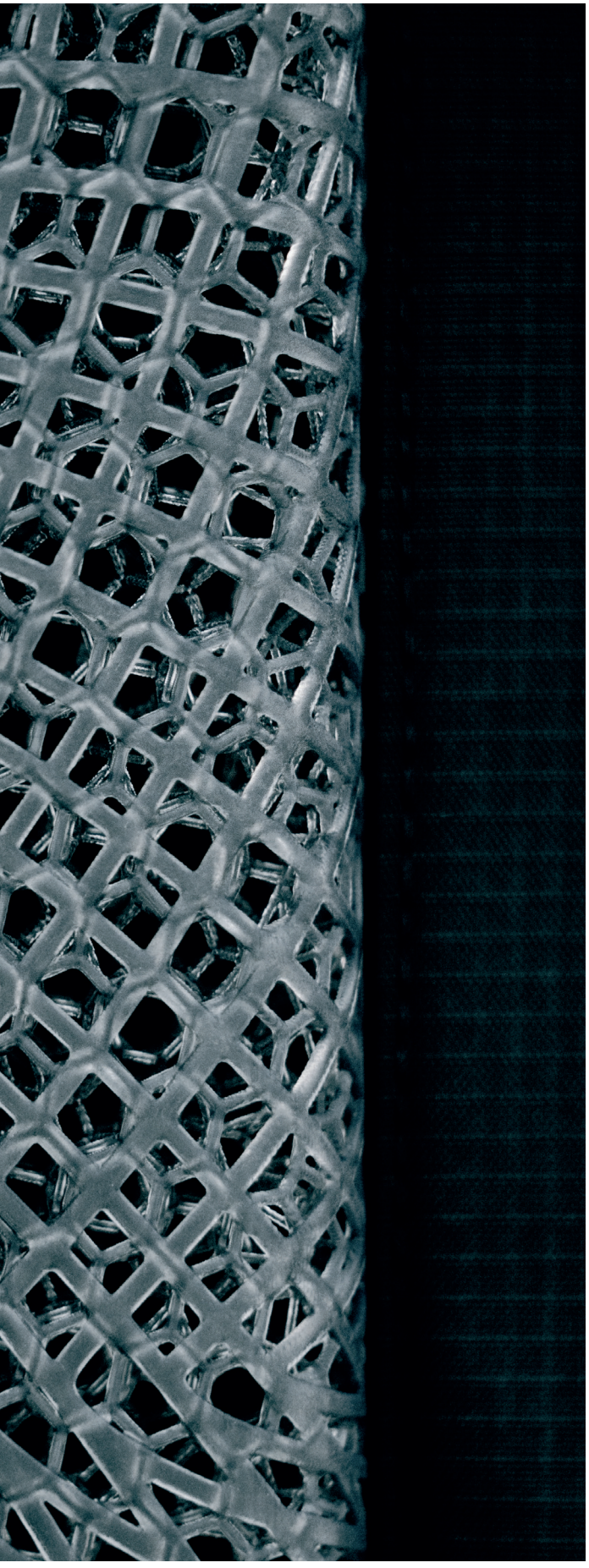
A revolution in comfort, printed in 3D

THE REVOLUTIONARY AERORISE™ CARRYING SYSTEM HAS EVOLVED AND IS NOW AVAILABLE IN MORE BACKPACK MODELS

IDSTEIN (January 2024) – Backpack padding created in a 3D printer - in 2022, Jack Wolfskin surprised the outdoor community with this ground-breaking innovation which subsequently won several awards, such as the renowned Red Dot Design Award. The Aerorise™ concept: instead of foam, the load-bearing panels consist of a fine-grained plastic, layered in a 3D printing process. The resulting design is an open cell structure that is both strong and capable of bearing weight and perfectly maps individu¬al torsos. The many pores within the structure allow air to circulate efficiently to prevent a sweaty back when carrying the backpack. At the contact points between backpack and body, the padding materials gauge and density are precisely customized for better comfort and air circulation. The 3D printing process is highly sustainable as hardly any material is wasted. Aerorise™ is the result of a collaboration between Jack Wolfskin, plastics technology specialist Oechsler and US-based 3D printing pioneer Carbon 3D. The second generation of Aerorise™ was further optimised: due to a slightly modified surface structure, the pads now rest even more comfortably against the back. The slightly revised panel shape allows for even better air circulation, providing the same level of support while effectively cushioning the load on the back.



3D Prelight Rise 35

Ultra-lightweight alpine backpack featuring innovative 3D printing

- \+ Waterproof, extremely lightweight mountaineering backpack with roll-top closure. Features an all-new look with recycled materials and specially designed details highlighted by its innovative carrying system.
- \+ The revised pad surface design comfortably moulds to the back instantly. The open cell structure allows for better ventilation and air circulation, significantly reducing tempratures at the back.
- \+ The unique 3D printing process creates four individual back pads, perfectly tailored to the individual back's shape, utilising multi-zonal body mapping. The pads absorb and transfer energy much more efficiently than conventional foams.
- \+ In the 3D printing process, virtually no excess source material is required, thus reducing production waste to an absolute minimum.
- \+ The backpack's light weight results from a mix of various recycled ripstop fabrics: Cross Rip 210D on front and base provides superior abrasion resistance, while the side inserts are made of lighter Cross Rip 70D.
- \+ Individually adjustable side compression solution, versatile fastening options and universal holders for trekking poles, carabiners and ice axe attachment.
- \+ Safety Plus: RECCO® technology, signal whistle, SOS alert print and reflective details.

Material: Cross Rip 210D (Recycled), Cross Rip 70D (Recycled);
Weight: 960 g; **Capacity:** 35 l

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