

Digital Material Culture

3D Printing Workshop 2022–2023

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class 3

What is Mechanism

A mechanism is the part of a machine which contains two or more pieces arranged so that the motion of one compels the motion of the others.

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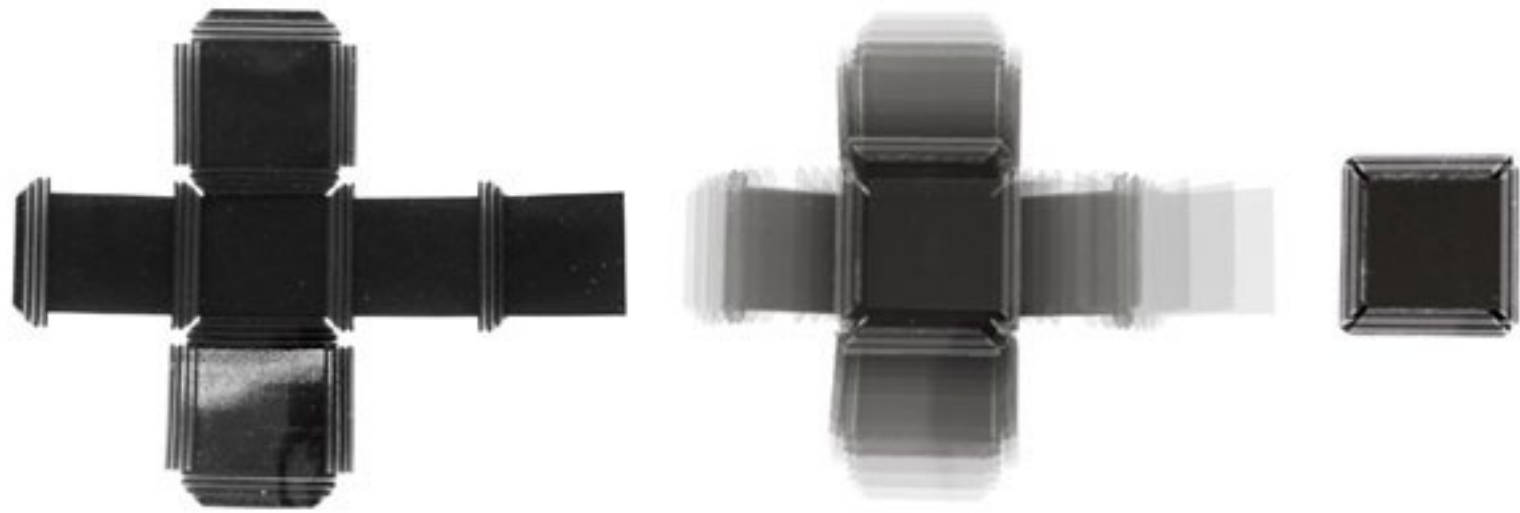
direction of movement

type of movement

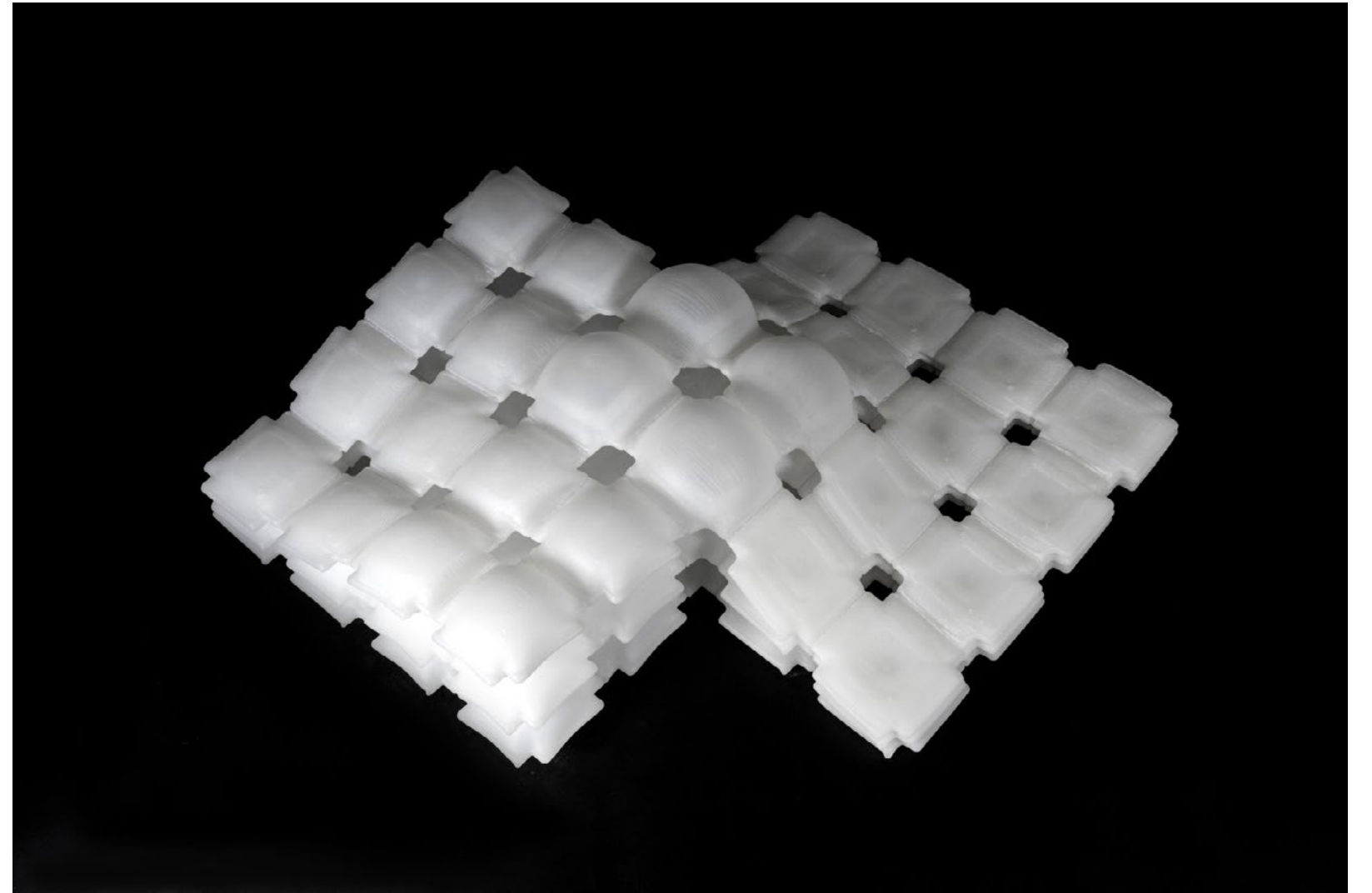
speed of movement

What is Mechanism

4D printing refers to single-material or multi-material printing of a device or object that can be transformed from a 1D strand into pre-programmed 3D shape, from a 2D surface into preprogrammed 3D shape and is capable of morphing between different dimensions.

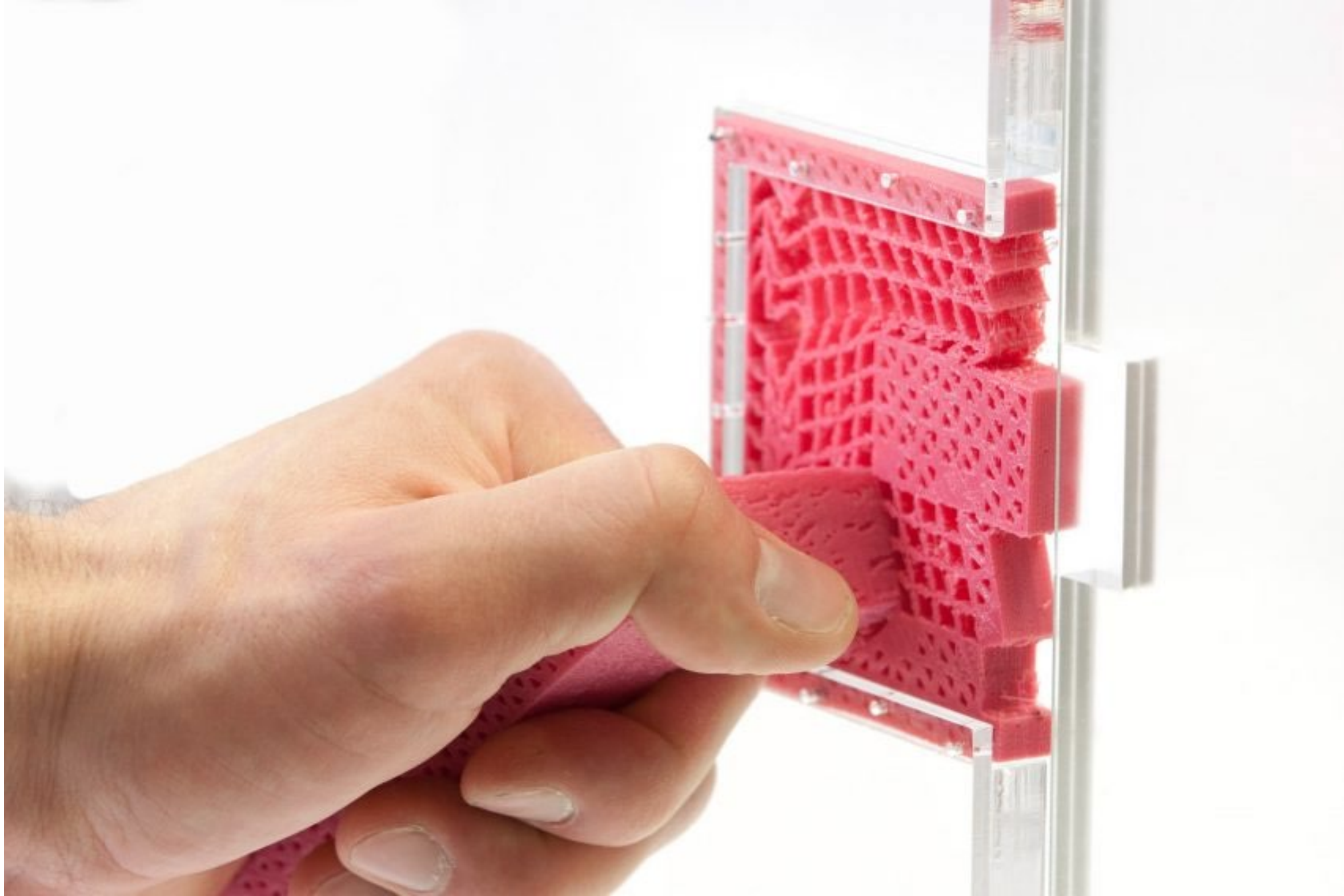


self folding cube



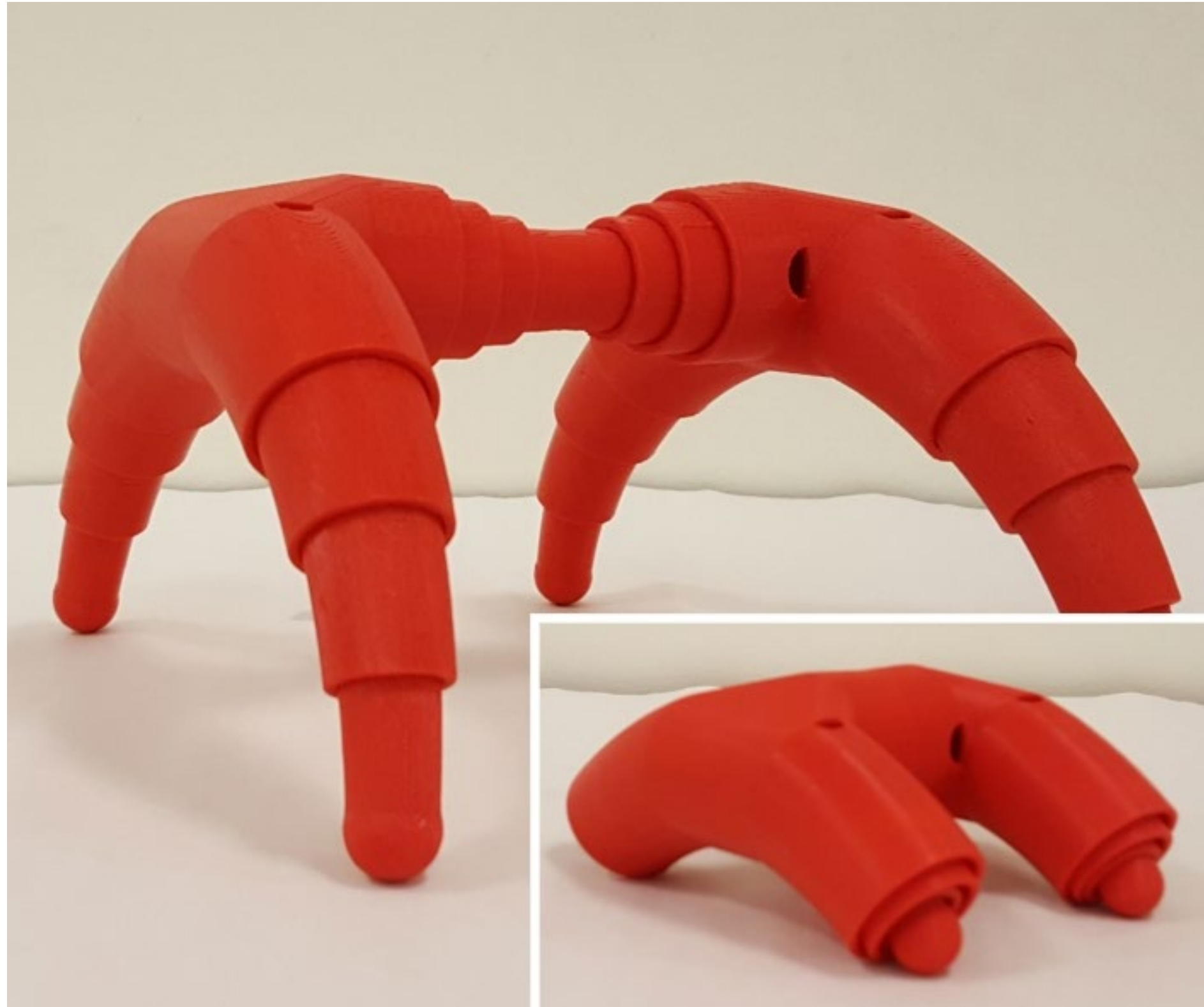
Liquid Printed Pneumatics

Door latch
[SITE](#)

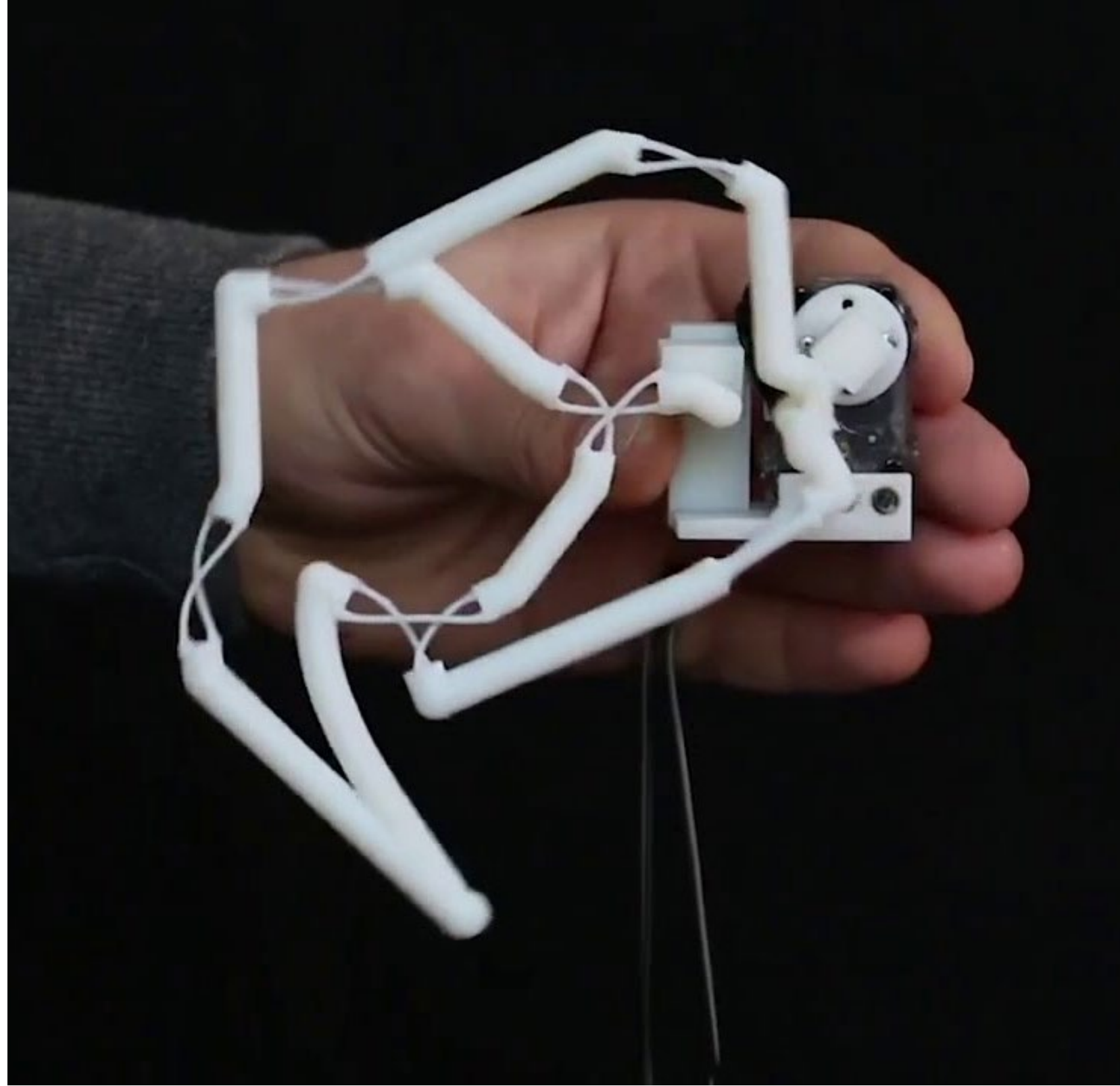


Telescoping Devices That Bend and Twist

[SITE](#)

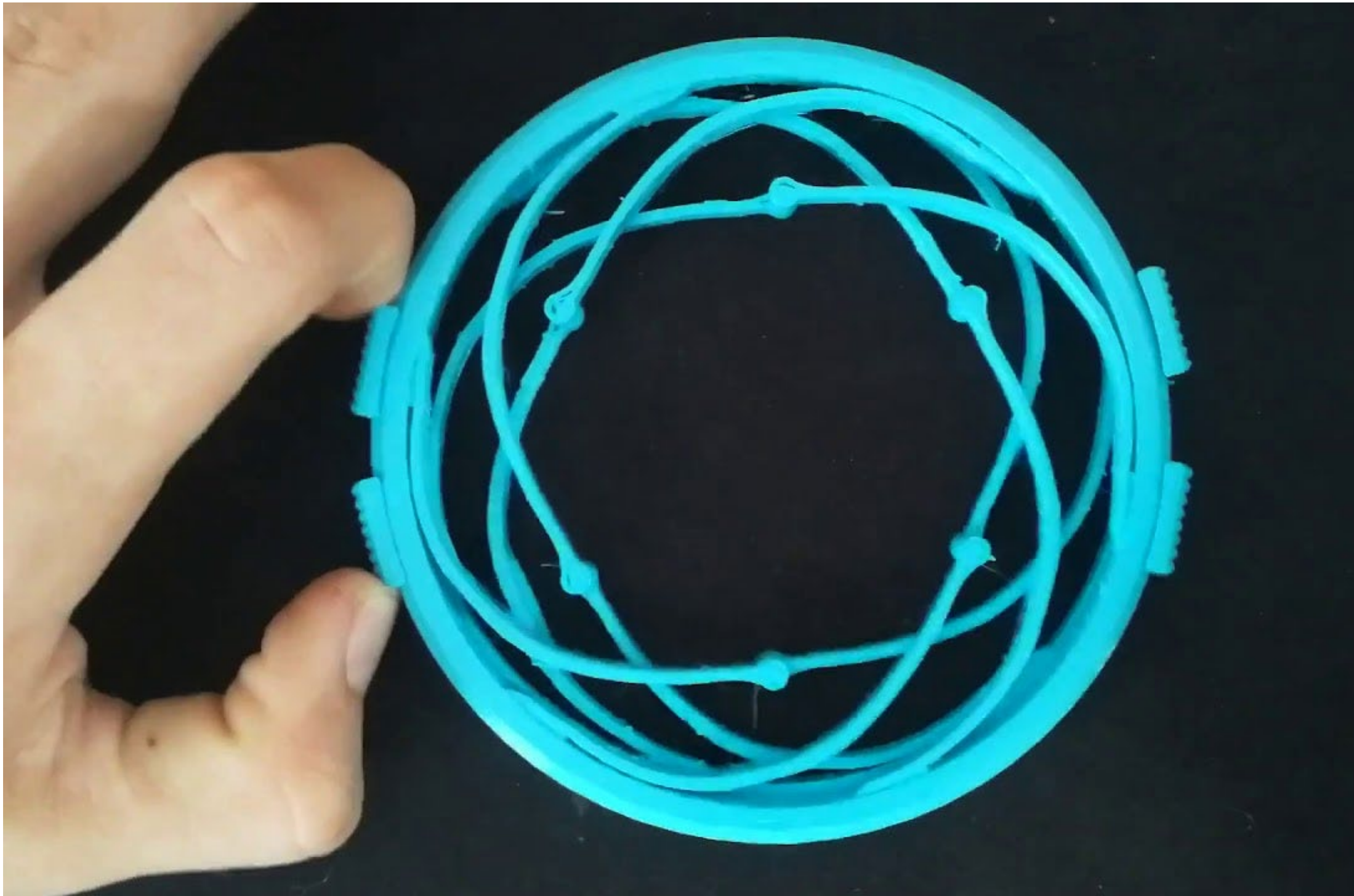


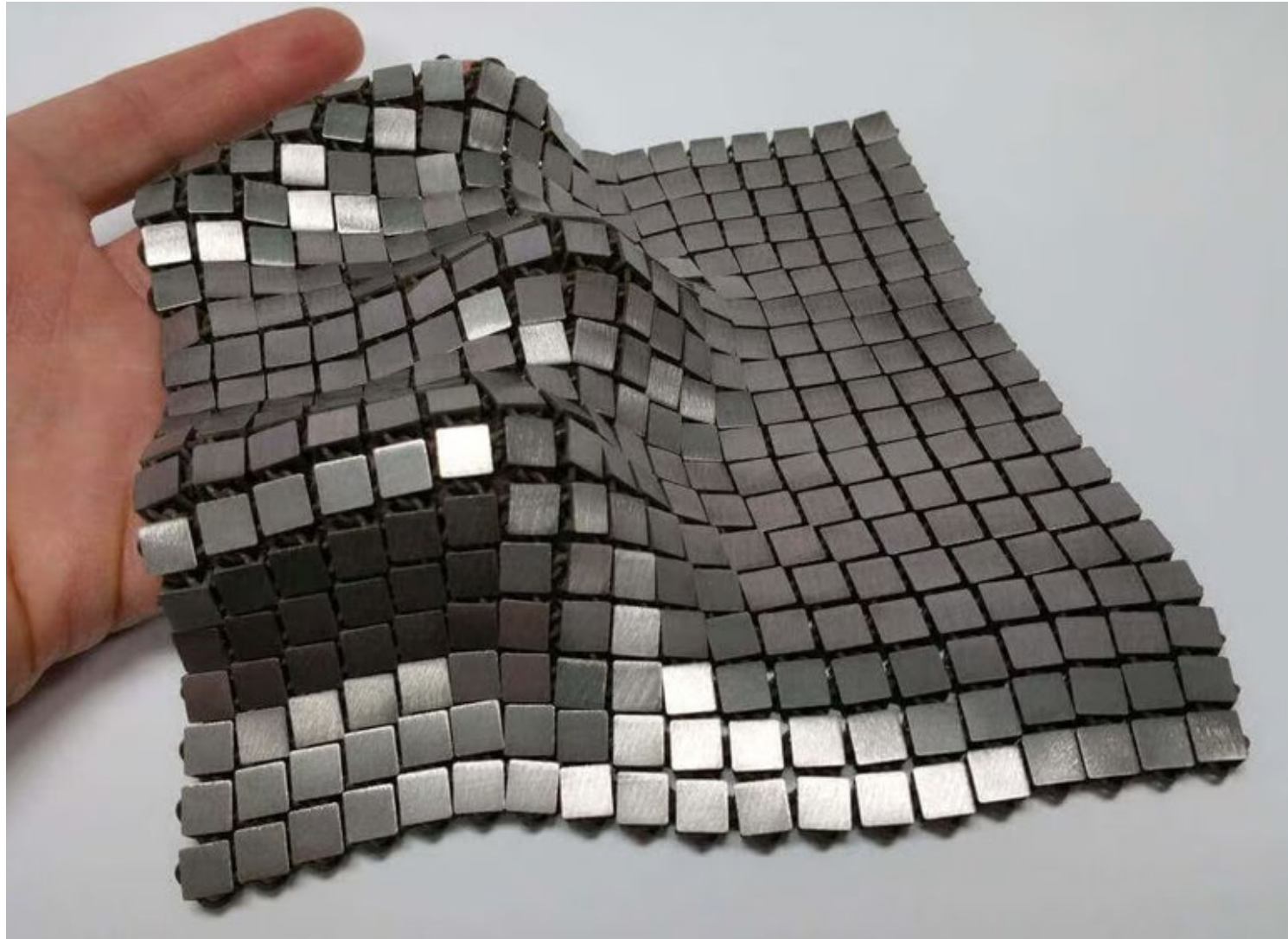




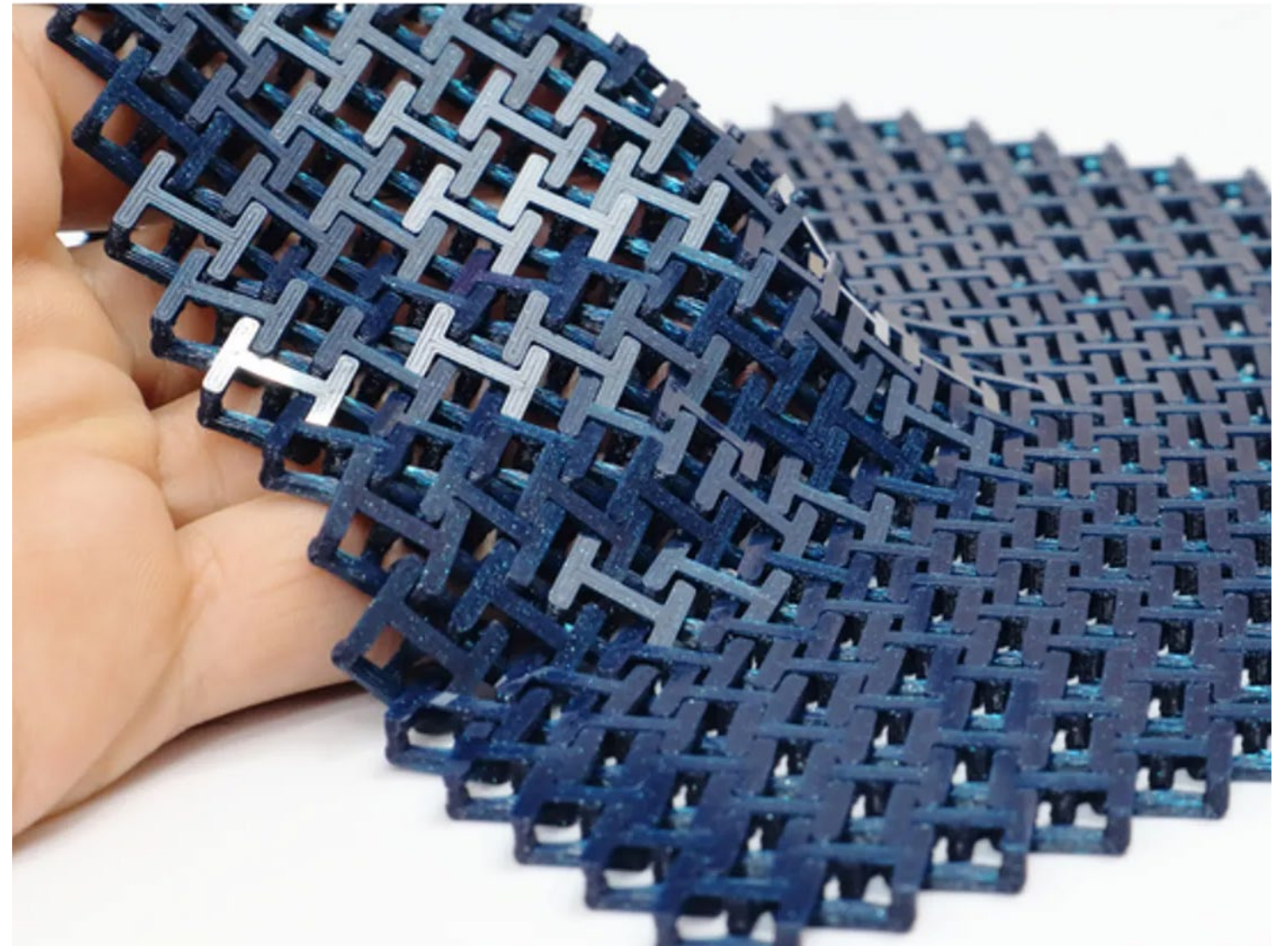
[VIDEO](#)

Jointless Iris mechanism





NASA



[Chainmail - 3D Printable Fabric](#)