

HOW TO MAKE M-ART

Zero gravity, full creativity



TRASHFORMERS

WHAT'S THE PROBLEM?



- Mars missions = 12,600 kg of inorganic waste in three years
- Aluminum is one of the principal reusable waste available.
- Resupply or returning waste from Earth = expensive, inefficient.
- No current method to reuse aluminum waste for tools.

Need: A creative, low-tech recycling process that astronauts can do themselves.

OUR IDEA

Aluminium Art = an origami-based recycling system!

WHY?

Aluminum is light,
strong, and
flexible.

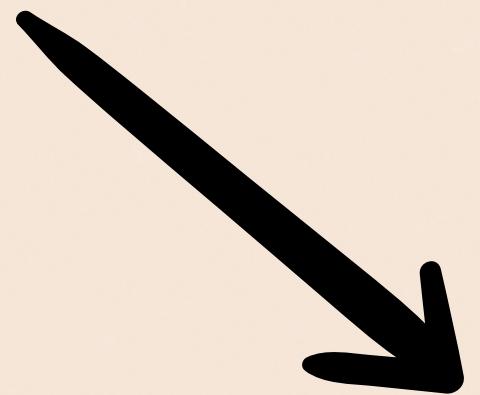
and! it gives benefits!

- Zero extra energy
- Zero emissions
- 100 % creativity

HOW?

fold → reuse → create

Main mission:
We want to care
for our
astronauts
mental health



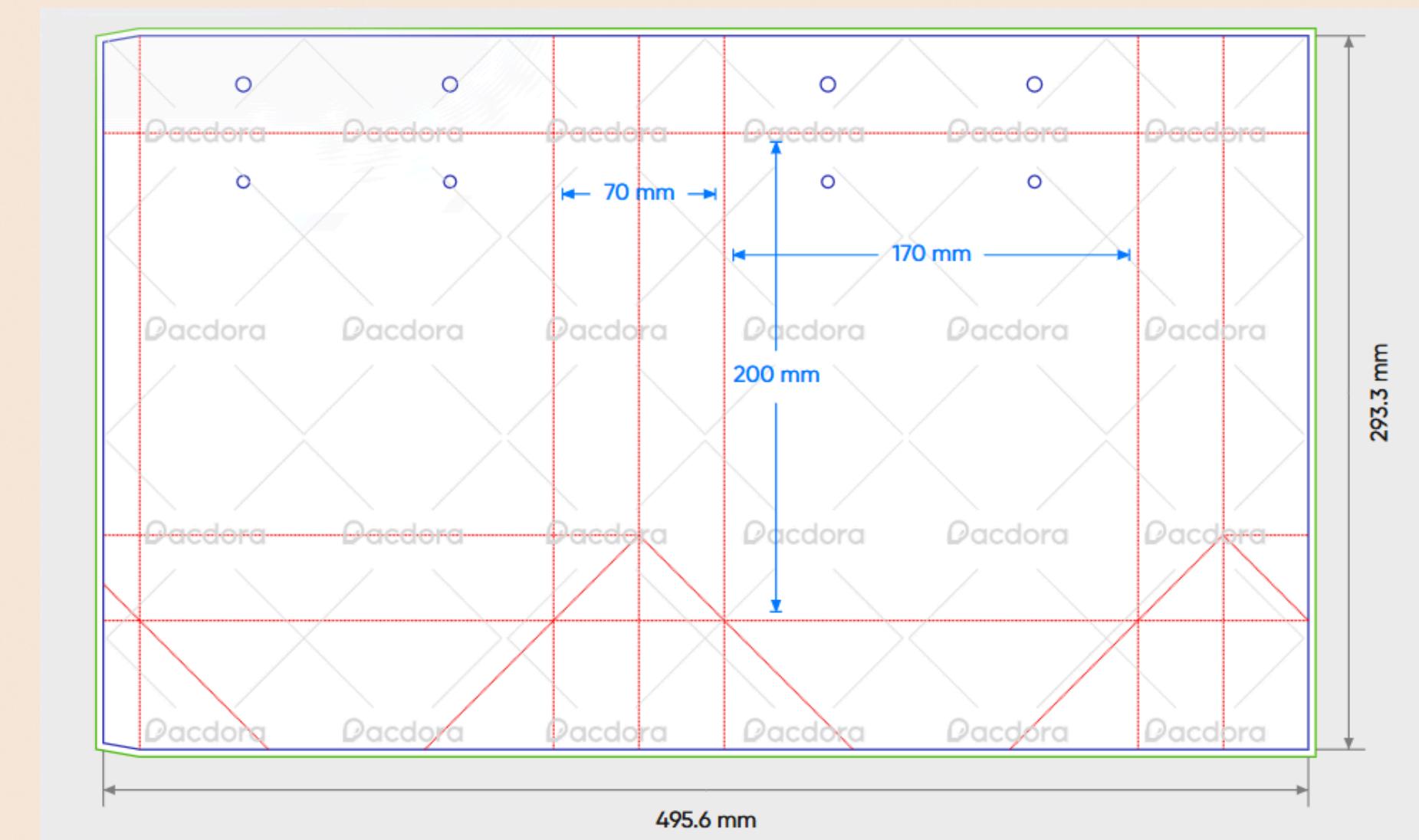
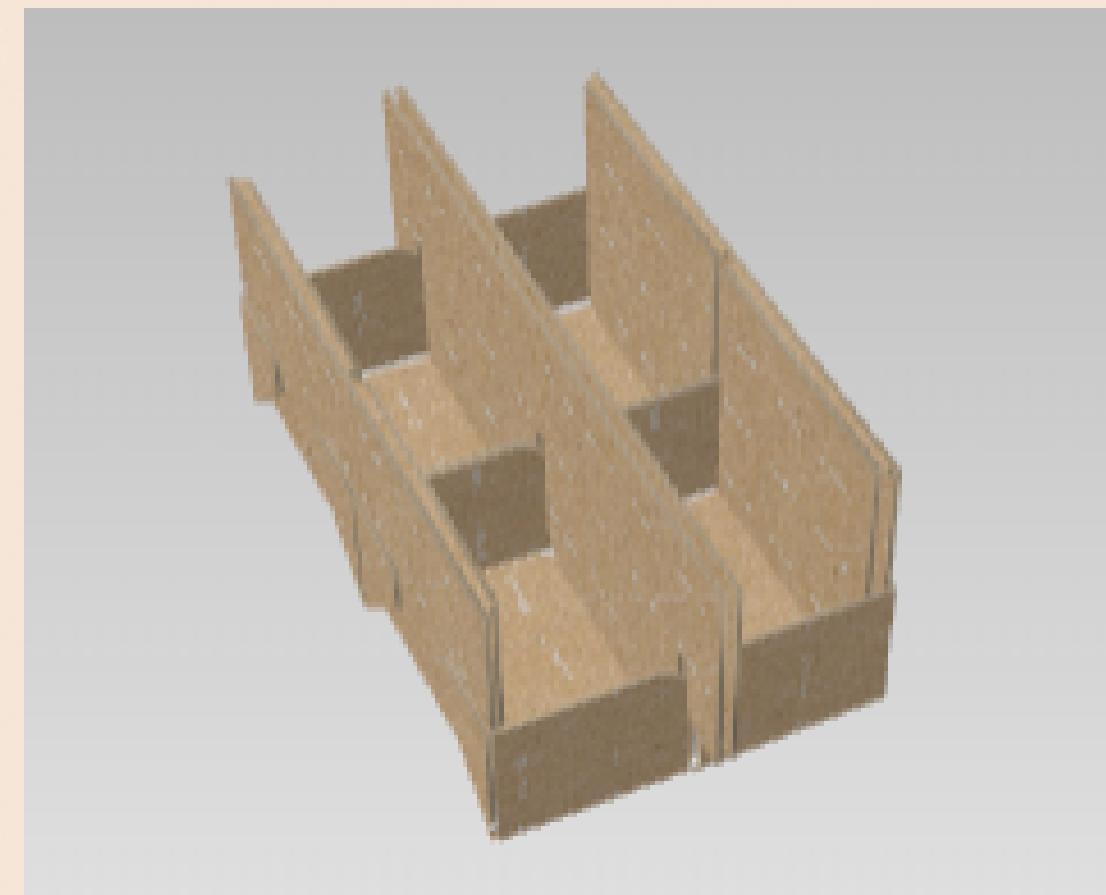
Dimensions: ~21 x ~26.5 cm x ~6 cm

Thickness: ~0.07-0.1 mm (thin aluminum)

Weight: 25-30 g per tray

ALUBOX & ALUHOOK (BASIC)

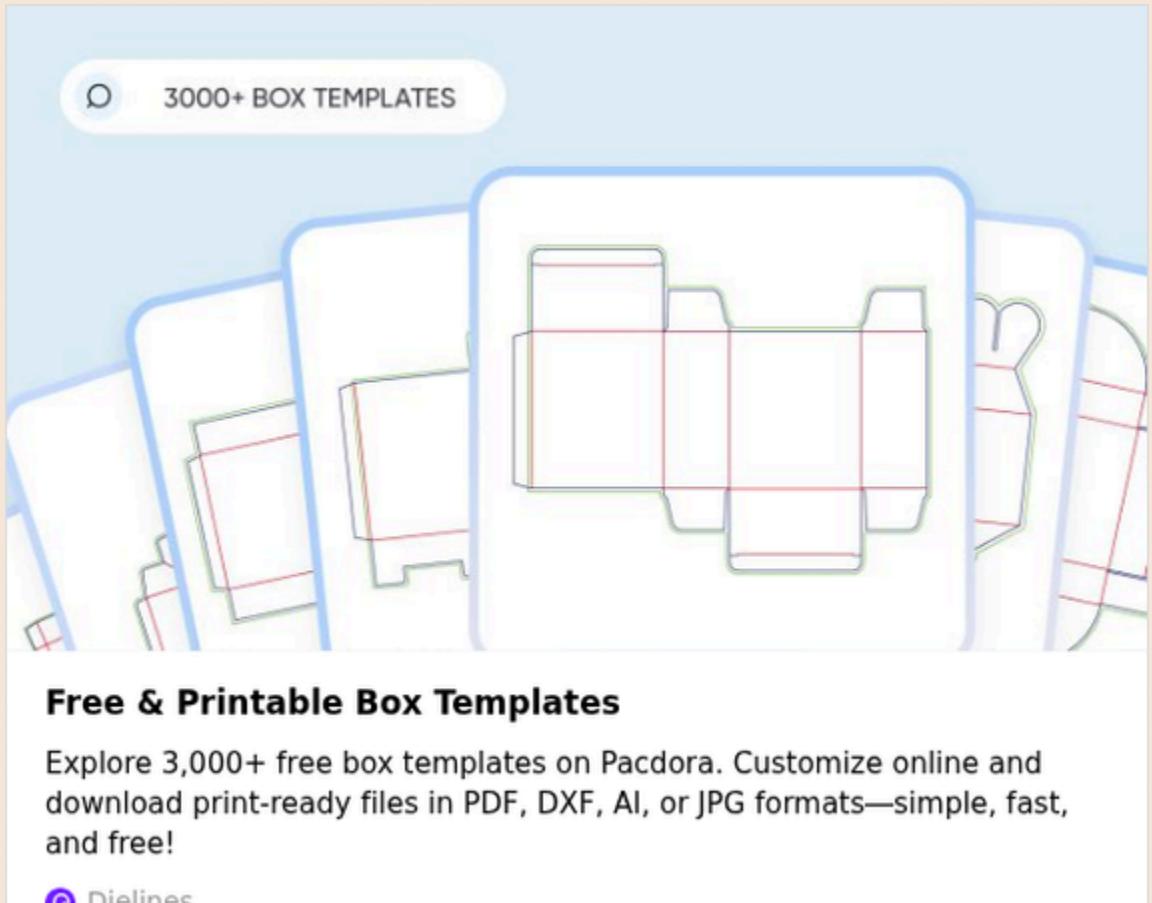
- Simple fold → storage box.
- Hands only.
- Reusable & practical.



“Start folding, start solving.”

MIURA FOLD REFLECTOR

RESOURCES



3000+ BOX TEMPLATES

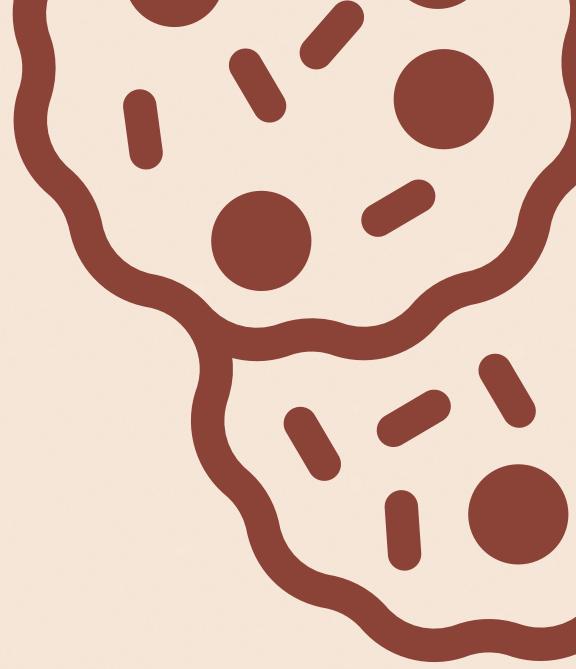
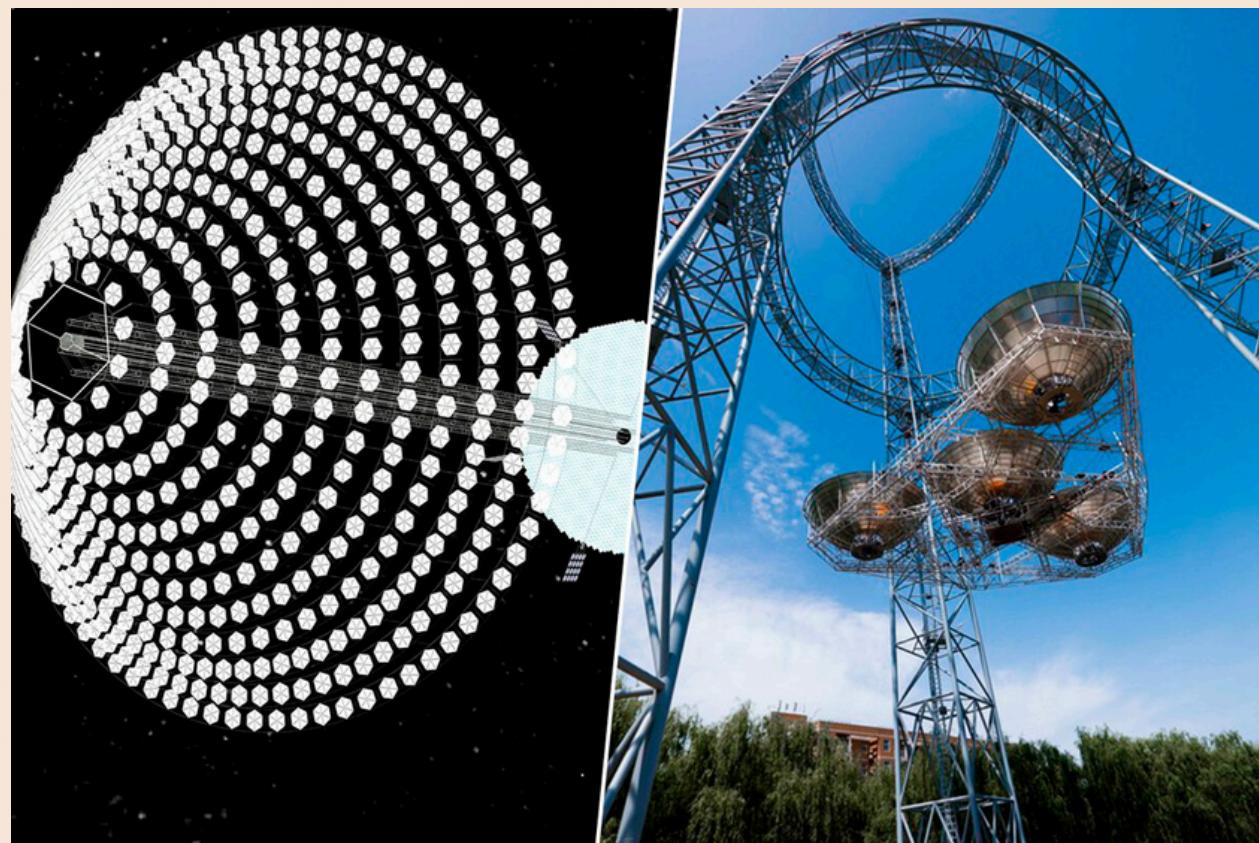
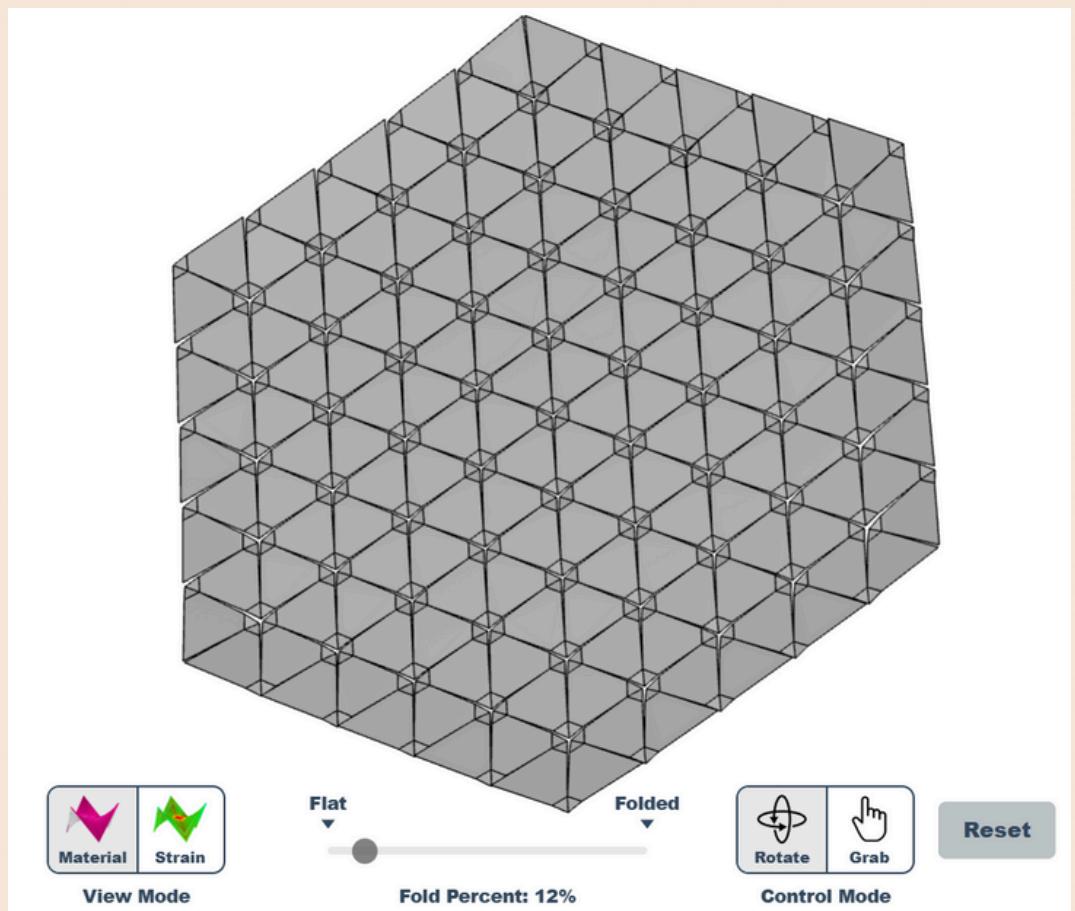
Free & Printable Box Templates

Explore 3,000+ free box templates on Pacdora. Customize online and download print-ready files in PDF, DXF, AI, or JPG formats—simple, fast, and free!

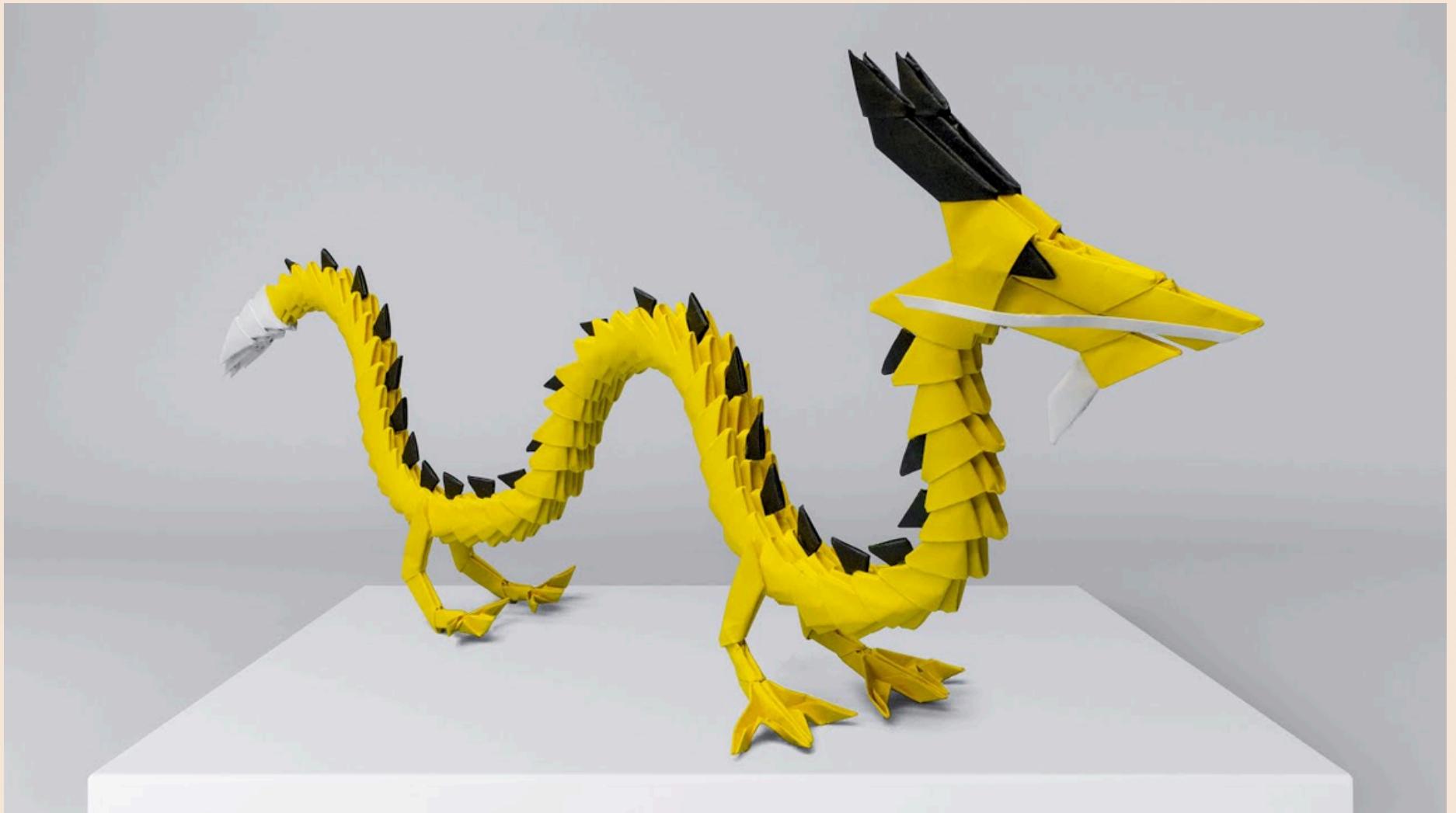
Dielines

“Engineering through art.”

- Purpose: Structural reuse.
- Function: Reflective / insulating panel.
- Tools: Folding guide or ruler.
- Benefit: Real engineering utility.

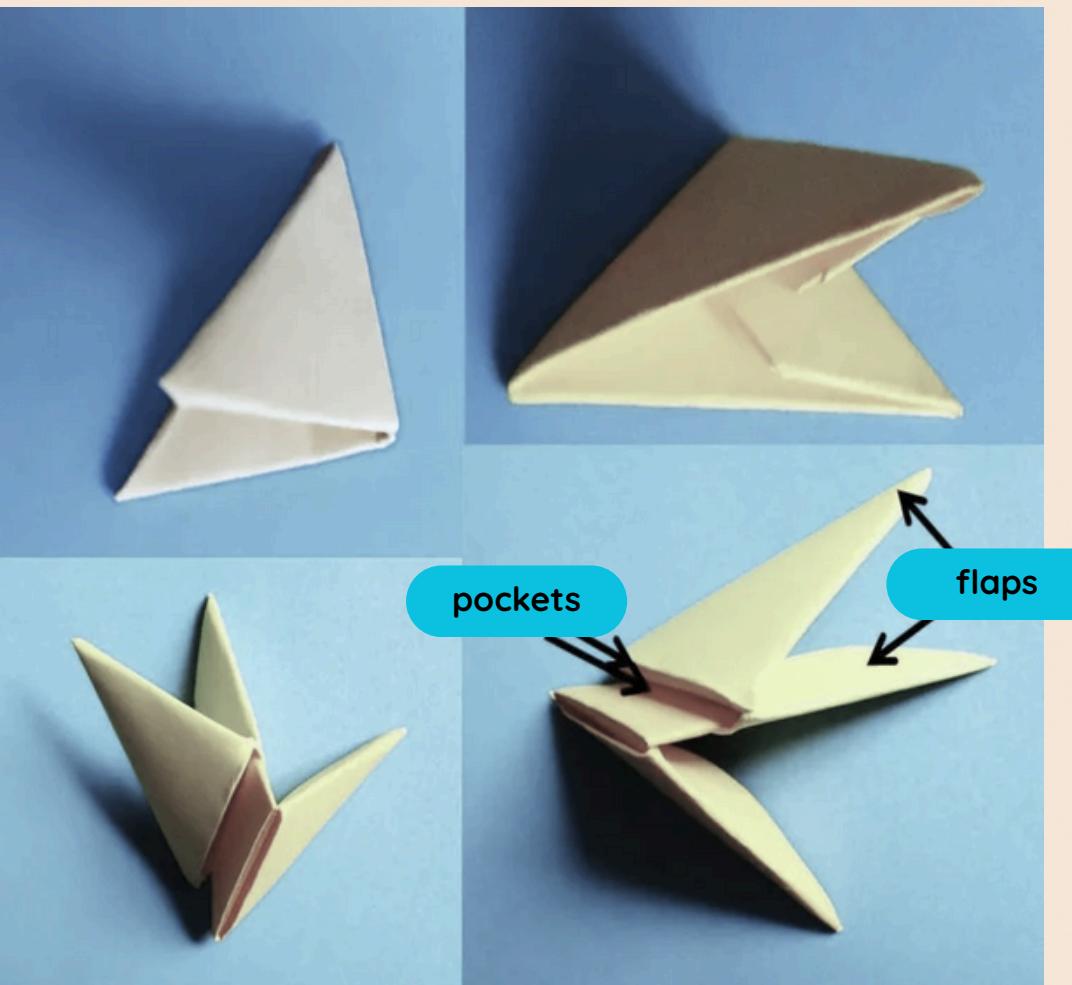


ALUDRAGON (ADVANCED)



- Finally Modular sculpture = teamwork + stress relief.
- Creative hobby in isolation.

“AluDragon --- the creative fold that keeps the mind strong.”



WHAT COMES AFTER THE FOLD?

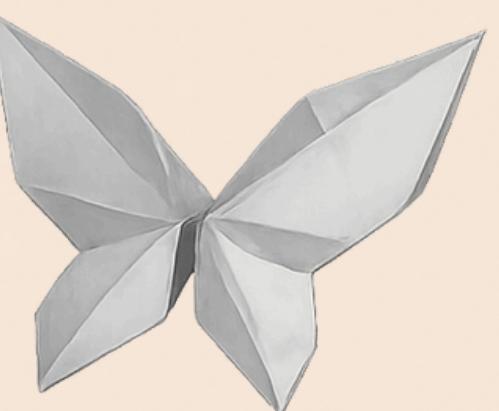
IMPACT

- Up to 90 % aluminium reused.
- More autonomy & sustainability.
- Boosts morale and creativity.

FUTURE VISION

- Full manual origami guide for astronauts, with various categories.
- Expand to modular repairs & shelters.
- Inspire circular-design education on Earth.

**From trash to tools —
and from tools to art**



THANKS!



Pueden tus ideas
cambiar al mundo

