

ADVANCED ADDITIVE REPAIR & REGENERATION ENGINEERING

The Most Innovative Green Tech.
& Engineering Company in the World



ELCYCER

🔍 Advanced Industries Face a Critical Supply & Circularity Gap

- Key Problems



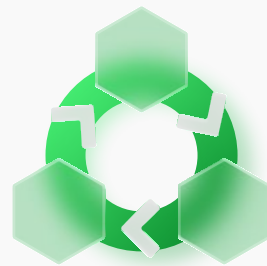
Technical Barriers

Hot cracking risk in high-performance super alloys



Long Lead Time

Casting/tooling baseline can be 6-12 months



Supply Chains Risks

The supply of rare metals is heavily concentrated in a few countries. (Ni/Co/Mo/W/Hf)

🔍 Advanced Additive Repair & Regeneration Engineering

Crack-controlled LP-DED repair + mold-free workflow + regeneration & reuse for hot-section MRO components.

- Demand for High-Performance Alloys



Aerospace

High-Temp. Engine Parts



Energy

Gas Turbine Hot Parts



Mobility

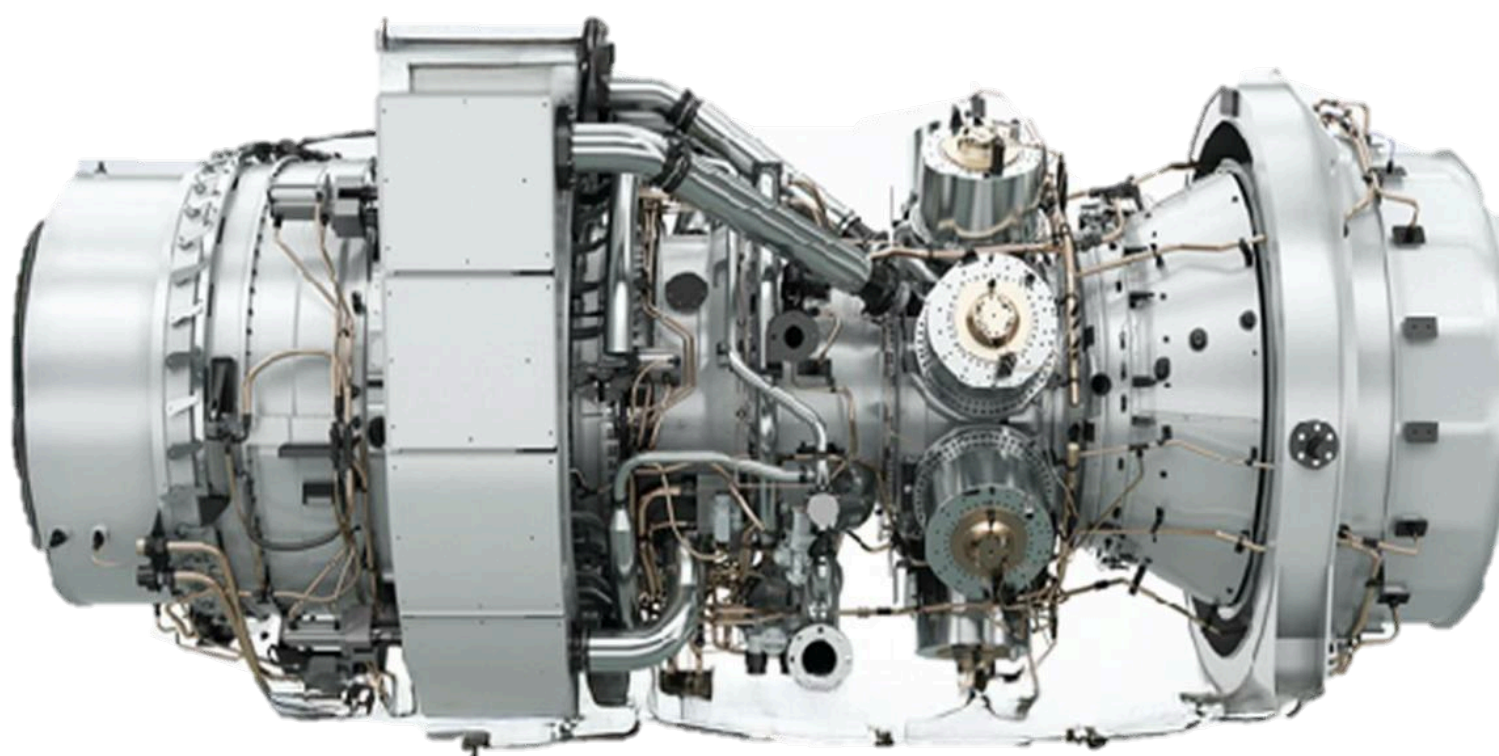
Heat-Resistant Parts



Defense

Mission-Critical Hot Parts

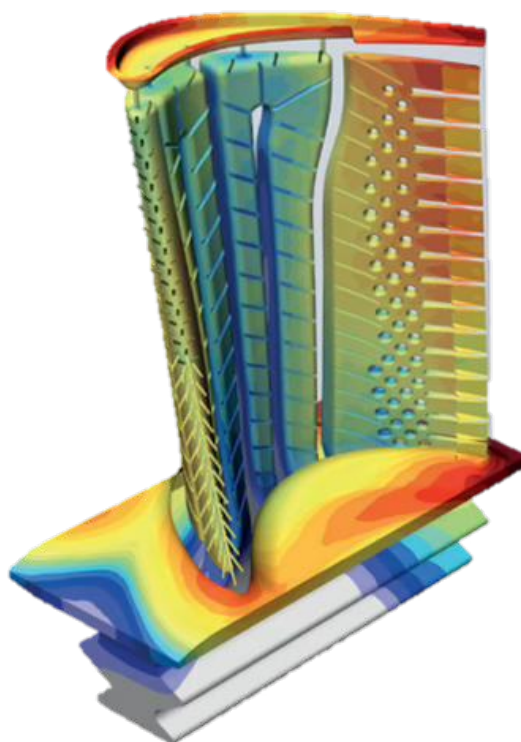
- Hot-section MRO Components



Compressor

Combustor

Turbine



Turbine Blade

Circular Regeneration Tech is No Longer Optional – It's Essential



• Crack-Free LP-DED Tech | Solution 1

- Automated DED (Direct Energy Deposition) repair
- Internalized DED process technology
- Controls high-temperature cracking
- Anable precise shape restoration
- PoC completed with domestic companies



Turbine blade

CMSX-4

DED Repair Material

Alloy 939



Turbine vane

Mar-M247

DED Repair Material

Alloy 939

Successfully completed DED repairs on the world's most difficult Ni-based alloy CMSX-4 Single crystal and Mar-M247 DS without any Crack & Defect.

Completed domestic company PoC – DED repair for gas turbine components

• Recycling waste materials | Solution 2

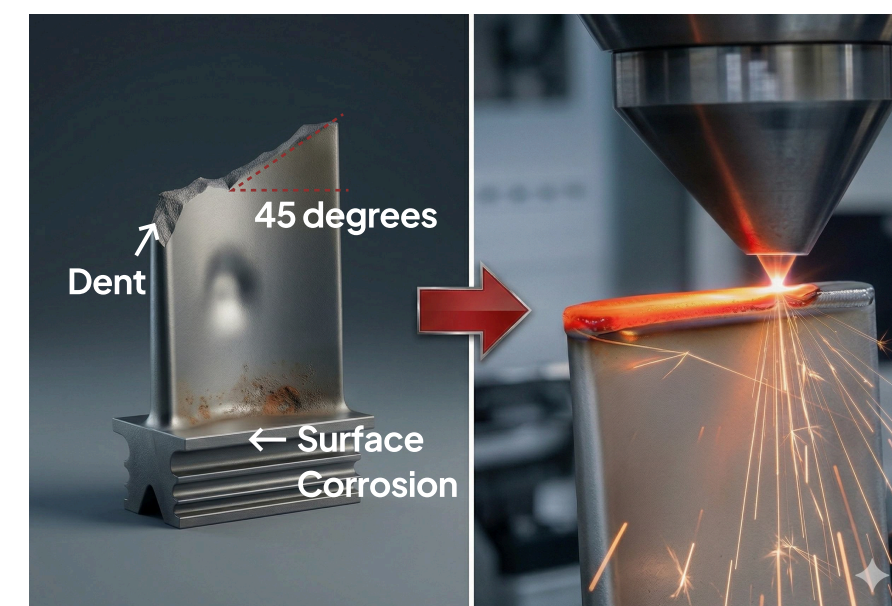
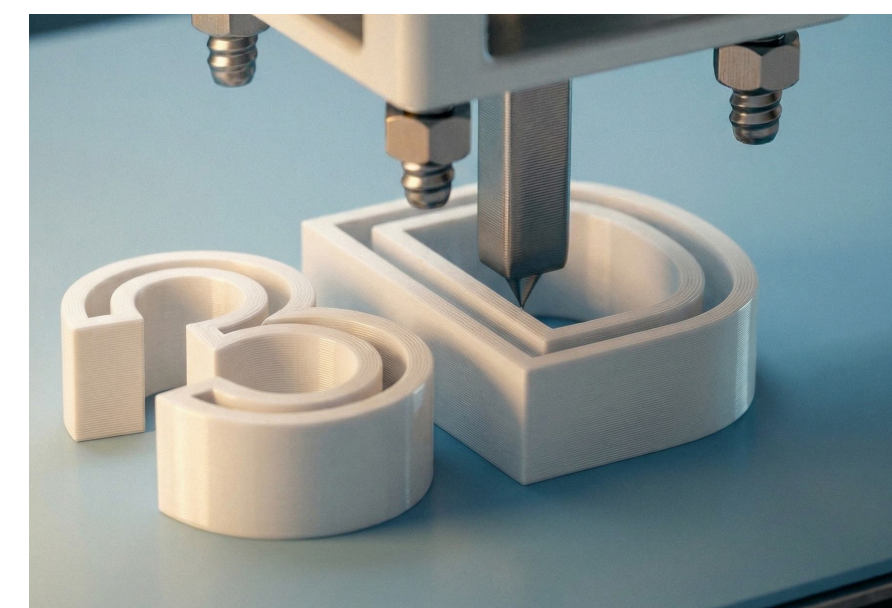
01 Sorting of waste resources



02 Recycling for repair materials (powder)



03 AM Repair for in-demand parts



30% cost savings compared to new purchases

• Mold – free workflow | Solution 3

- Non-mold-based technology – Minimize process
- Repair for specific localized area – Minimize materials



Crack-free automated DED repair verified by a certified institution

WE DON'T JUST RECYCLE MATERIALS, WE CREATE NEW VALUE.

Certifications



Company Overview

Company Name	ELCYCER Co.,Ltd.
Establishment	April 25, 2023 (Incorporated)
Business	Manufacturing of AM Materials and Parts
CEO	Gideok Park
Employees	Total 9 (R&D 5)
Address	Main Room 301, Hyowon Industry-Academic Cooperation Building In PNU, Busan
	Factory 263-17, Daedong Industrial Complex in Gimhae, Gyeongsangnam-do

Our Partners



Milestones

2023	2024	2025
Establishment of GODTECH (2023.04.25) - Eco Starup Program(Pre-startup Track) - Doosan Enerbility Open Innovation - Grand Prize in the Startup Promotion Agency - KEPCO KPS Open Innovation	Pre-SEED Funding Secured (2024.04.30) - Youth Startup Academy, Class of 14 - SME Technology Innovation Program - Grand Prize in Korea Midland Power's Energy - Gas Turbine Prototyping Project - KOEN (Korea South-East Power) Open Innovation - KEPCO KPS Startup Together Project - Startup TIPS Program	Factory Establishment and Facility Setup - KDB NextONE Busan, 2nd Batch - Global Startup Academy (USA) - Eco Startup Program (Startup Track) - Gyeongnam T.P Gas Turbine Performance Verification Project - Gyeongnam T.P Nuclear Industry (SMR) Project - Gyeongnam T.P Space Industry Project - IBK Changgong Busan, 13th Batch