



GUMEN

Industrial Furnace & Machine

SUMMARY · 2026

ALUMINIUM SYSTEMS · COMPACT

Aluminium Line Solutions

From Melting to End-of-Line · 12 Product Groups · Single Supplier

Single-source engineering, manufacturing and commissioning for your entire aluminium production facility. 18+ years of expertise, 100% domestic engineering, turn-key integration.



Fully Integrated

Single supplier



Energy Efficient

20%+ savings



Patent UT

Only in Türkiye

TR

100% Domestic

Low TCO

18+

YEARS OF EXPERIENCE

9+

TURNKEY PROJECTS

7

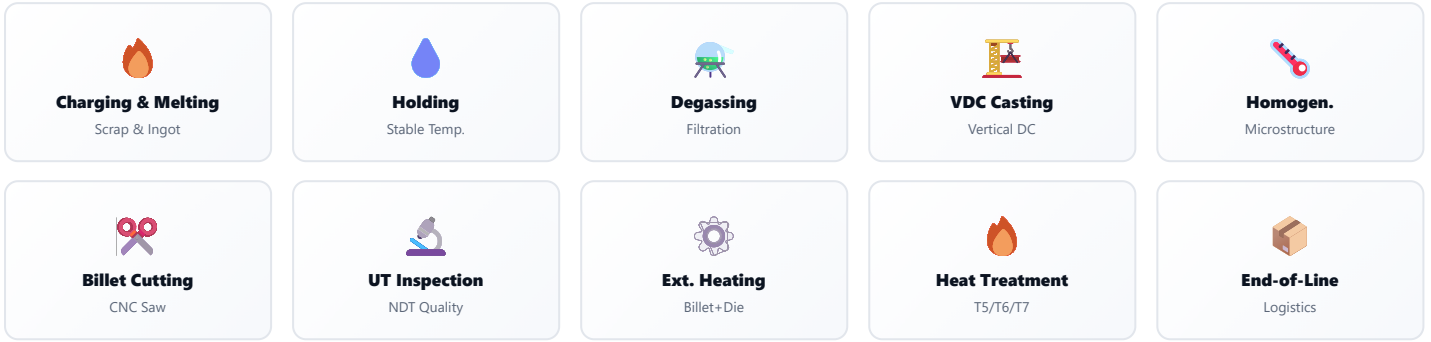
COUNTRIES EXPORTED

100%

DOMESTIC ENGINEERING

PROCESS FLOW · END-TO-END

Complete Aluminium Line from a Single Supplier



WHY GUMEN

Gumen Industrial Furnace & Machine

| | | |
|---|---|--|
| <p>FULLY INTEGRATED DESIGN Furnace, automation, mechanical and process data from one supplier; integration and maintenance simplified.</p> | <p>ENERGY EFFICIENCY Regenerative burners, heat-recovery treatment, smart recipe management — 20%+ savings.</p> | <p>PATENTS & STANDARDS Patent-pending in-line UT system. AMS 2154, ASTM B594, MIL-STD-2154 compliant.</p> |
| <p>PLC & SCADA Native PLC + SCADA + IIoT integration on Siemens / Allen-Bradley platforms.</p> | <p>TR 100% DOMESTIC MANUFACTURING All components in our own facility. Spare parts in stock, fast service, low TCO.</p> | <p>GLOBAL DELIVERY Exports to 7+ countries. On-site installation, FAT/SAT, operator training, lifetime support.</p> |

COMPLIANT DESIGN STANDARDS

| | | | | | |
|----------------------|----------------------|---------------------|---------------|--------------|----------------------|
| AMS 2154 Aerospace | AMS 2770 Drop Bottom | ASTM B594 Aluminium | ASTM E2375 UT | EN 12804 NDT | ISO 16810 UT General |
| MIL-STD-2154 Defense | AQAP-2110 NATO | ISO 9001 Quality | CE Compliant | | |

12 PRODUCT GROUPS

Complete Line Components



Melting & Holding Furnace

Regenerative burner. Stable temperature, low energy.

5-100 ton

Twin-chamber



Inline Degassing & Filter

Rotary degassing + CFF/DBF filter + heated launder.

H₂ <0.10

Aerospace



VDC Casting Machine

Vertical DC (Air-Casting). PLC control, auto recipe.

∅ 75-300 mm

1xxx-7xxx

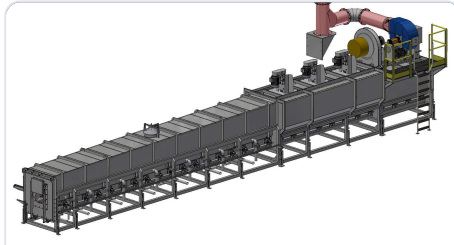


Homogenization Furnace

Microstructure homogenization, extrusion quality.

480-600 °C

Forced air



Extrusion Billet/Die Heating

Taper-temperature profile, integrated die furnace.

380-500 °C

Taper

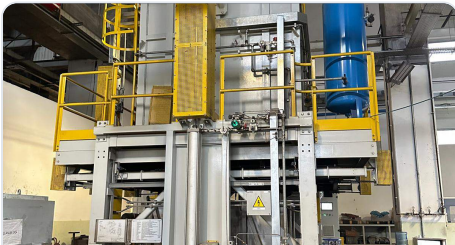


Heat Treatment (T5/T6/T7)

Solution + quench + ageing integrated line.

480-540 °C

Quench



Drop Bottom (Aerospace)

Sub-second quench for structural parts, T6/T7.

<15 sec quench

AMS 2770



Sheet & Foil Annealing

Batch / Continuous / Bell-type · H₂/N₂ atmosphere.

250-600 °C

10-80+ ton



Ageing Oven

Controlled artificial ageing after solution + quench.

±2 °C

Multi-shelf



Auto Saw & UT System

In-line UT — only domestic system in Türkiye. Patent pending.

FBH ∅0.4

2-10 MHz



Billet Auto Cutting

CNC servo control, casting line synchronization.

±0.5 mm

Auto chip



Charging & End-of-Line

Charging car, robot gripper, transfer/conveyor.

Robot

Conveyor

Let's Evaluate Your Project Together

18+

YEARS OF EXPERIENCE

9+

TURNKEY PROJECTS

7

COUNTRIES EXPORTED

100%

DOMESTIC ENGINEERING

Selected References

PMS Aluminium

Kurtođlu Aluminium

AL Metal Aluminium

Çuhadarođlu Metal

Alfa Metal Aluminium

GNS Aluminium

Panda Aluminium

Simgetek (Steel)

New Line · Modernisation · Service

For new facility setup, capacity/efficiency upgrades on existing lines, retrofit projects or 24/7 service, contact our team. **Initial technical evaluation is free of charge.**

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