

DNZ DENİZ METAL



Since 1990



“Giving Aluminum a Second Life”

Deniz Metal Casting company was established in **1990** in Istanbul and today operates modern production facilities focused on aluminum scrap recycling and secondary aluminum ingot manufacturing.

With its investments in recent years, Deniz Metal Casting’s modern facility, operating on **24,000 m²** of open and **6,000 m²** of closed area, has reached a high annual production capacity.

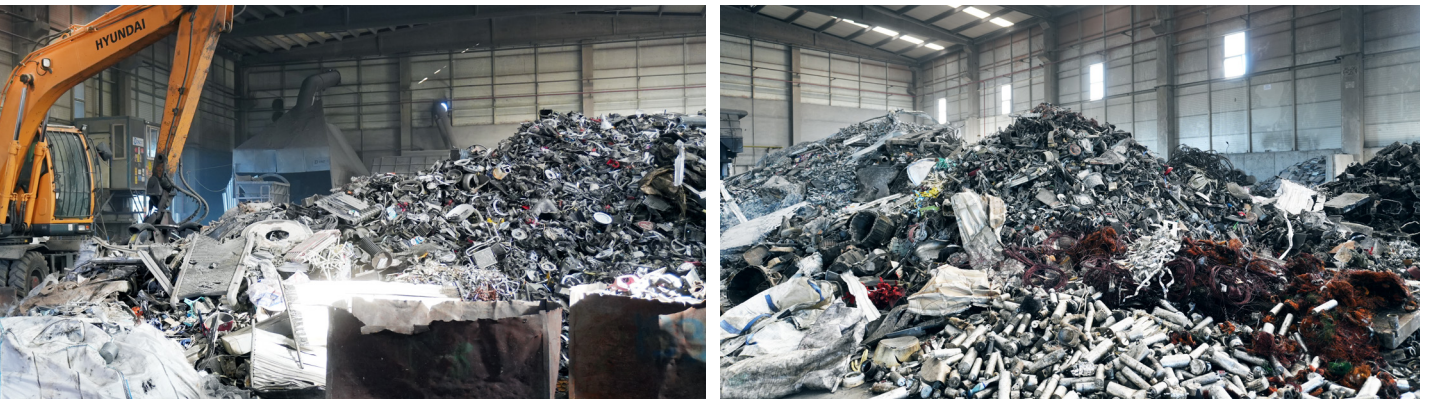




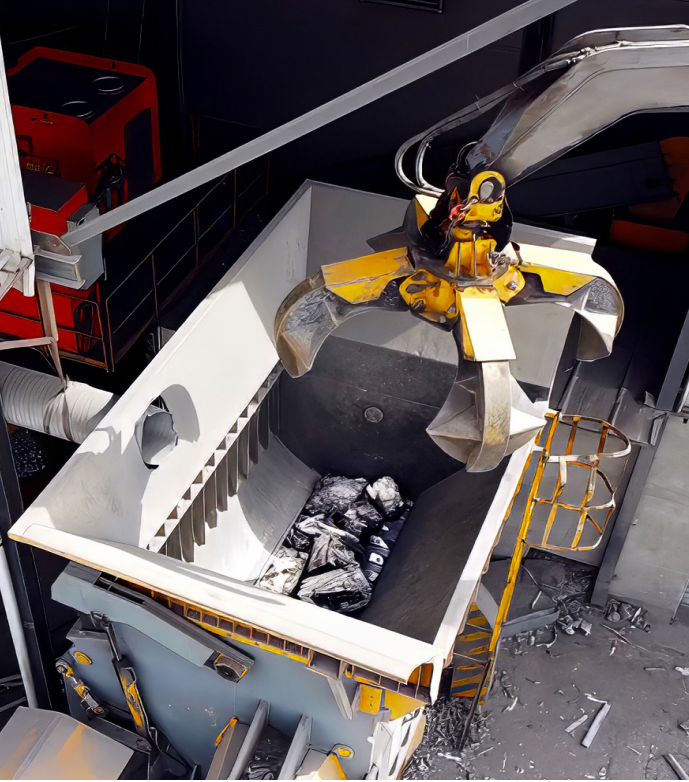
Aluminum scrap from all around the world passes through advanced shredding and separation systems, where it is purified, sorted, and its purity is carefully inspected.

Each kilogram of recycled aluminum consumes approximately **95% less** energy compared to primary production and reduces carbon emissions by up to **9 times**.

In this way, Deniz Metal Casting strengthens its **environmentally friendly** production approach, contributing both to the preservation of natural resources and to a sustainable industry.



The scrap is loaded into our **shredding line** equipped with modern technology, where it is initially crushed and conveyed along belt systems.



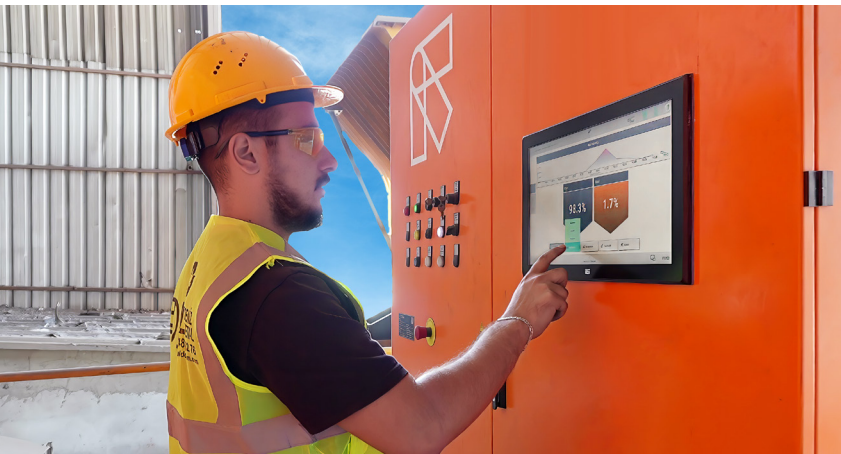
The scrap, crushed by **hammer crushers**, is then transferred to a magnetic separator, where iron-containing materials are separated from the aluminum.

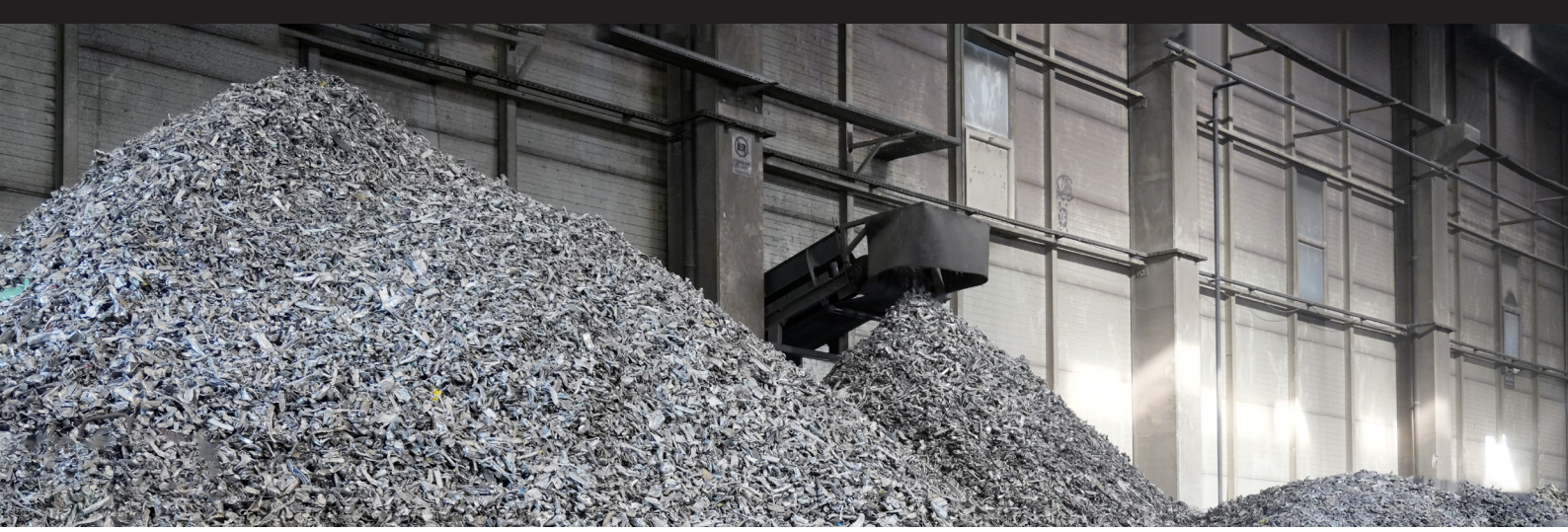




Using **Eddy Current** technology, foreign materials such as dust, plastic, foam, and glass - including particles as small as 0.10 mm are separated from the aluminum.

In the final stage, the scrap is purified from heavy metals such as zinc, lead, and copper using the **Tomra X-Ray** device, resulting in high-purity aluminum ready for processing.





Aluminum pieces that have gone through the crushing and cleaning stages are **inspected** with specialized equipment before melting. This process ensures both their **purity** and suitability for production, allowing quality to be verified quickly and efficiently.



The purified aluminum is transported to the furnaces using **loading carts** with a capacity of 1200 kg.

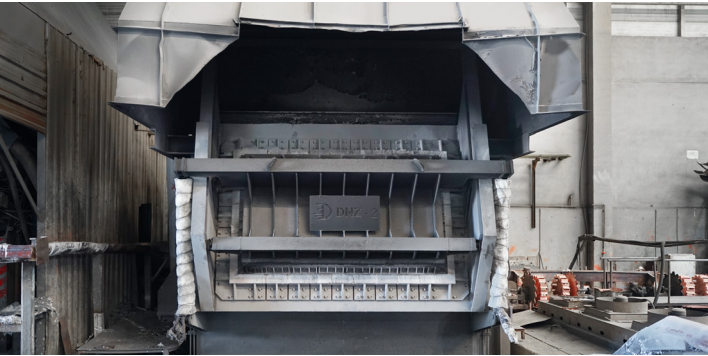


Next, the metal is melted in modern **furnaces** and enriched with alloying elements to produce high-strength aluminum alloys.



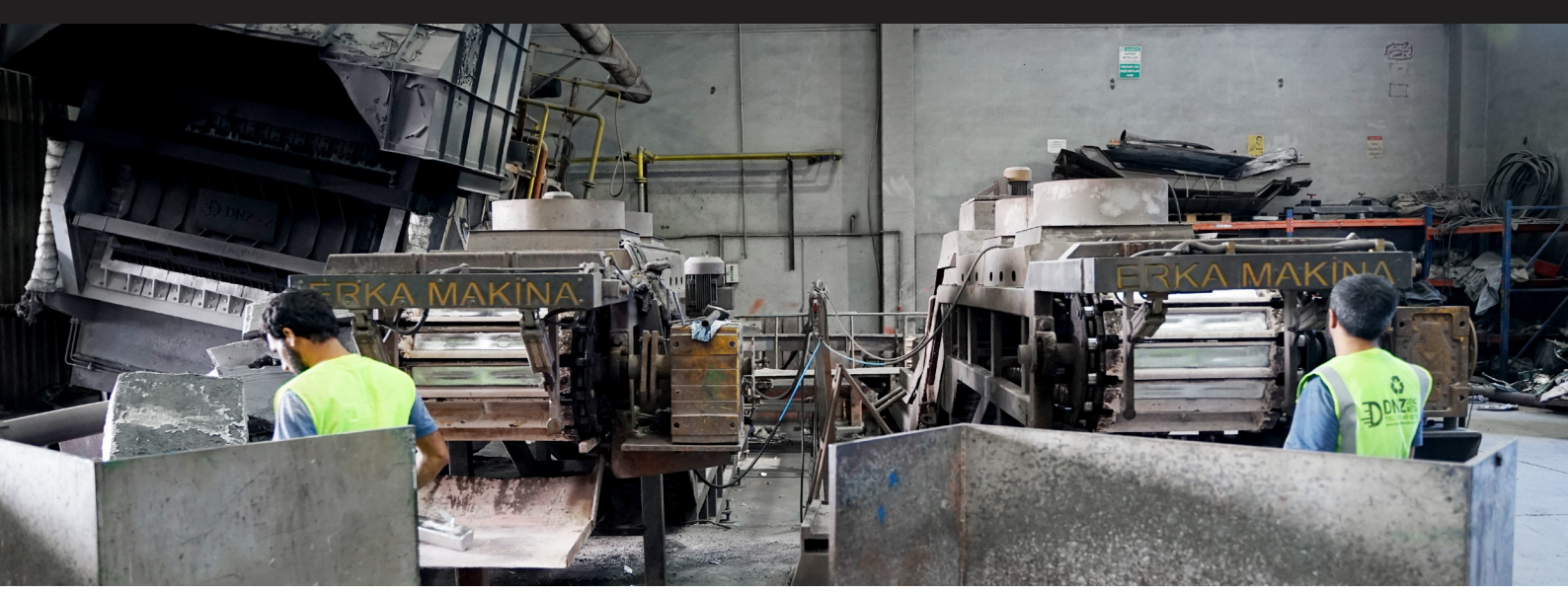


The melted metal rests in a **reverber furnace**, during which alloying elements such as silicon, magnesium, copper, and manganese are added.



This results in high-strength aluminum alloys that meet **specifications**.





The molten aluminum from a single 17 ton charge, flows to the casting line through **two channels**.

After casting, the **ingots** are carefully stacked and cooled in a controlled manner.

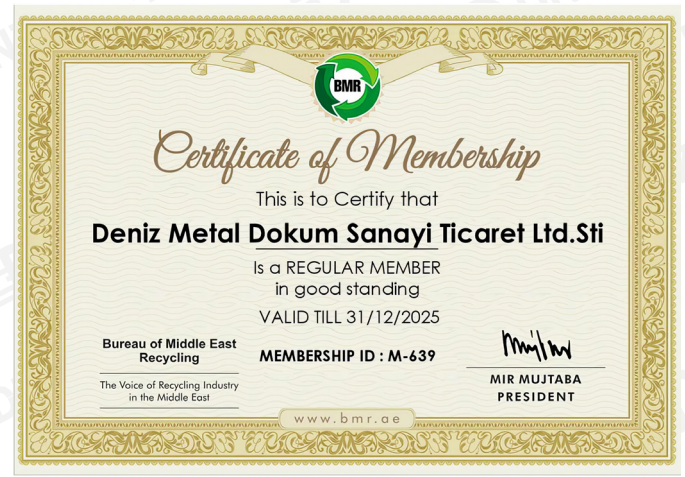




After the casting and packaging stages, our **ingots**, prepared in accordance with international standards, are delivered to our customers using just-in-time logistics.



Deniz Metal Casting actively participates in both national and international organizations, such as **TALSAD**, **TÜDÖKSAD**, the Bureau of International Recycling (**BIR**), **BMR**, and **MRAI**, to maintain the highest quality and environmental standards in the industry.



These memberships demonstrate our company's commitment to producing in line with global sustainability goals.



HEAD OFFICE

İkitelli O.S.B. Mah., 6. Cad. Beyaz Tower İş
Merkezi Kat:2 No:57, İkitelli / Başakşehir /
İstanbul - TURKEY
+90 (212) 485 82 76
+90 (212) 485 82 75

FACTORY

Velimeşe Organize Sanayi Bölgesi Mah. 231.
Sk. No: 3/1 Ergene / Tekirdağ - TURKEY

info@denizmetaldokum.com

