



YOUR SOLUTION PARTNER



RECYCLING & REFINING  
MACHINERY PRODUCTION



PROSES MAKİNA LTD.  
[www.proses-makina.com](http://www.proses-makina.com)

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# About Proses Makina

Proses Makina was established in 2010 as the only producer in the recycling and refining machines industry in Turkey. In particular, precious metals such as gold, silver, platinum, palladium, and rhodium can be processed in our systems.

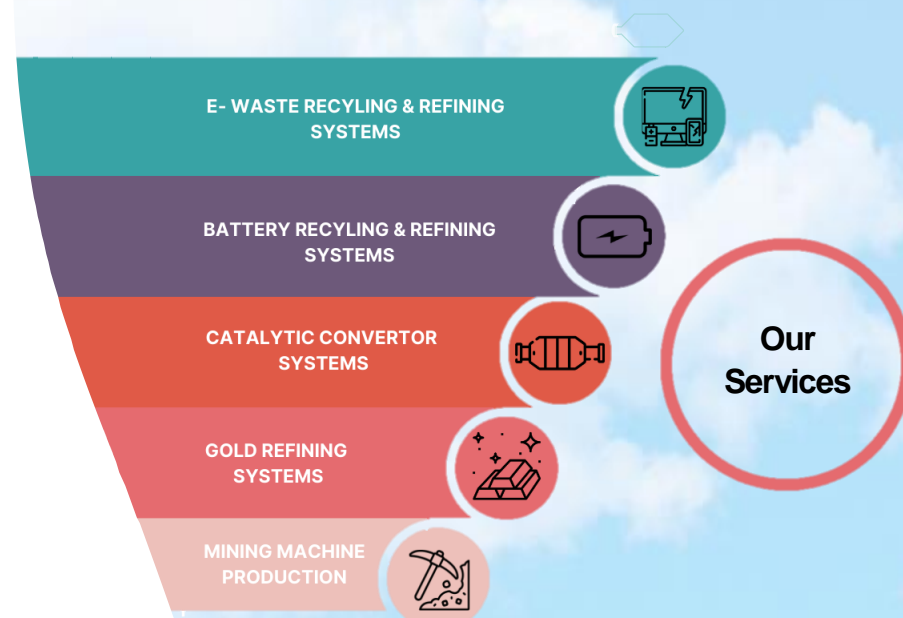
Proses Makine also create custom processes based on customer requirements and engineering methods. These carefully designed processes are then provided as complete turnkey factories.

## Vision

Our vision is to produce innovative, functional, profitable, modern machines in the recycling sector and make them useful for the benefit of society.

## Mission

Our mission is to work for a clean and livable environment by supporting the recycling of raw materials, producing modern and technological machines that keep operators' health and business environment safe.



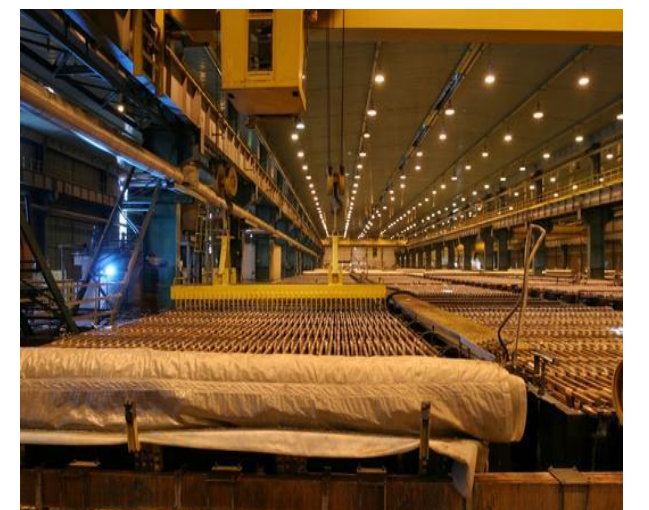
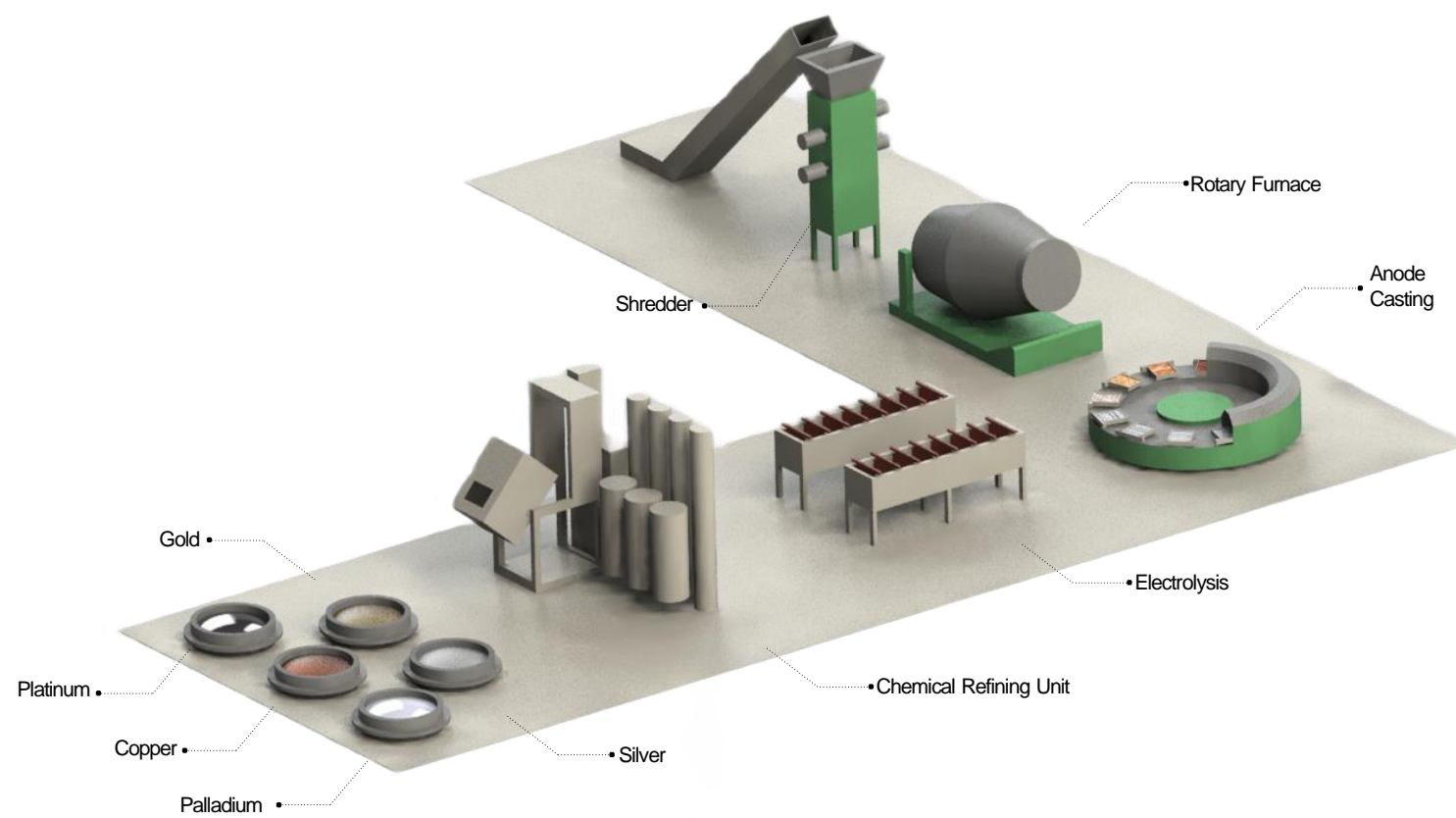
# E-waste

## E-waste Recycling & Refining Systems

Proses Makina specializes in the manufacturing of cutting-edge recycling plants specifically designed to handle electronic waste to suit your capacity requirements. Our recycling process ensures unrivaled efficiency and the highest levels of purity in the market.

Our system is engineered with a comprehensive three-step approach that encompasses physical treatment, pyrometallurgical treatment, and chemical treatment. This multifaceted methodology guarantees the optimal handling and processing of electronic waste materials, maximizing resource recovery and minimizing environmental impact.

### | Recycling & Refining Process |



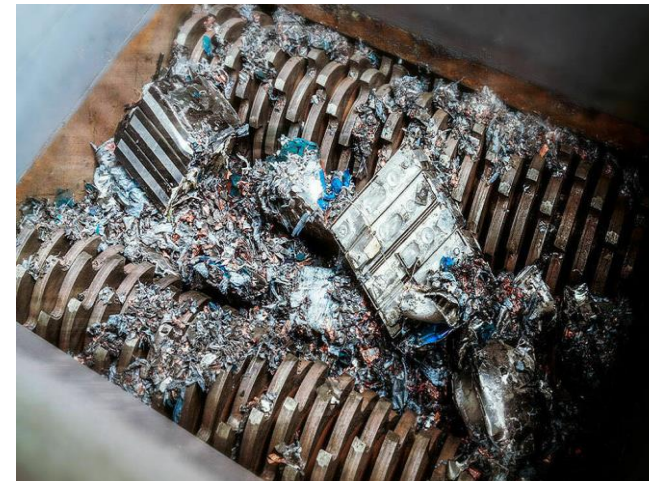
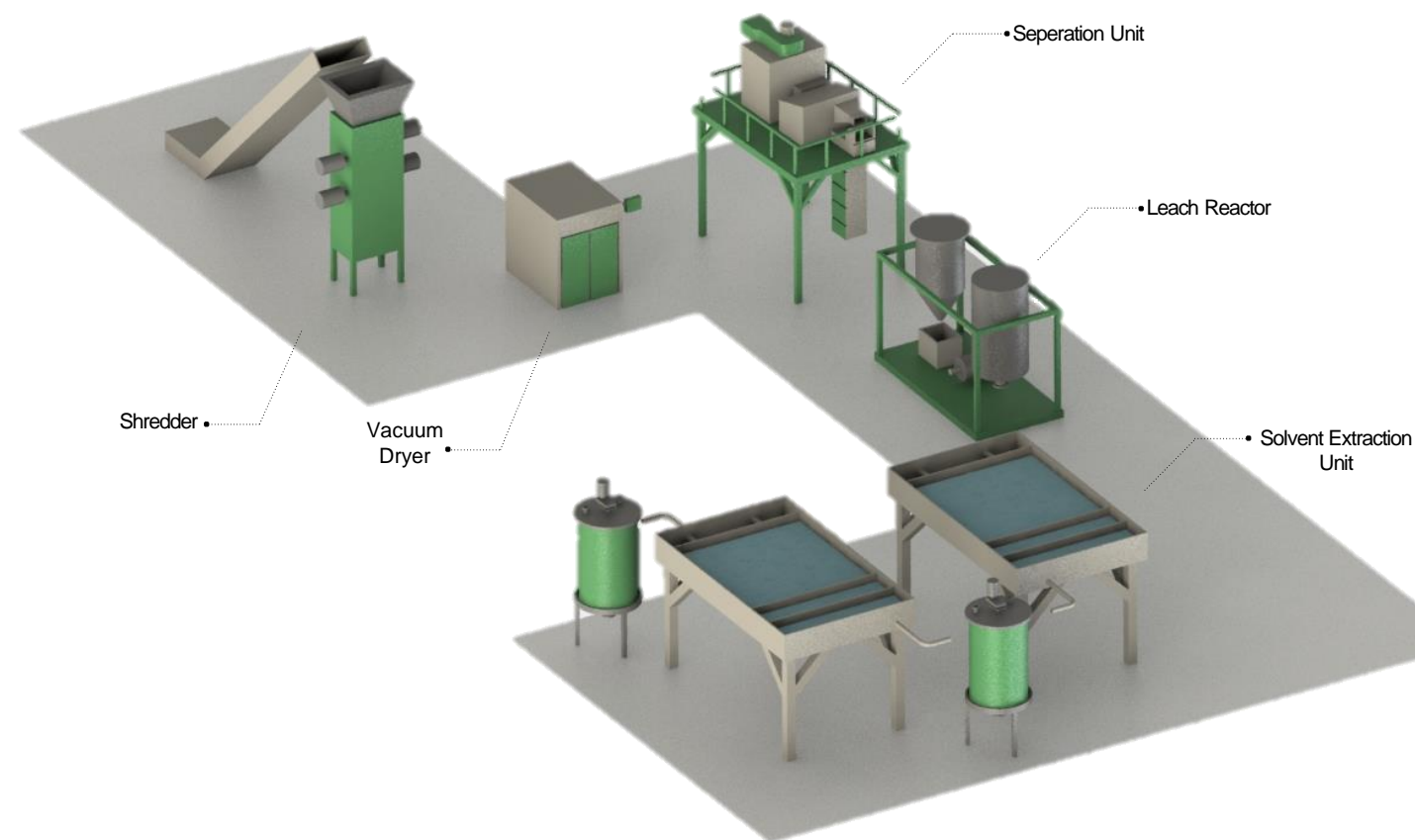
# Battery

## Battery Recycling & Refining Systems

Proses Makina is a leading provider of advanced machines for battery recycling. Our state-of-the-art equipment handles various battery types with a focus on environmental preservation and resource recovery, our machines extract valuable materials efficiently. We offer tailored solutions, comprehensive support, and a commitment to customer satisfaction.

### |Recycling & Refining Process|

Battery  
Recycling  
Systems



# Catalytic Converter

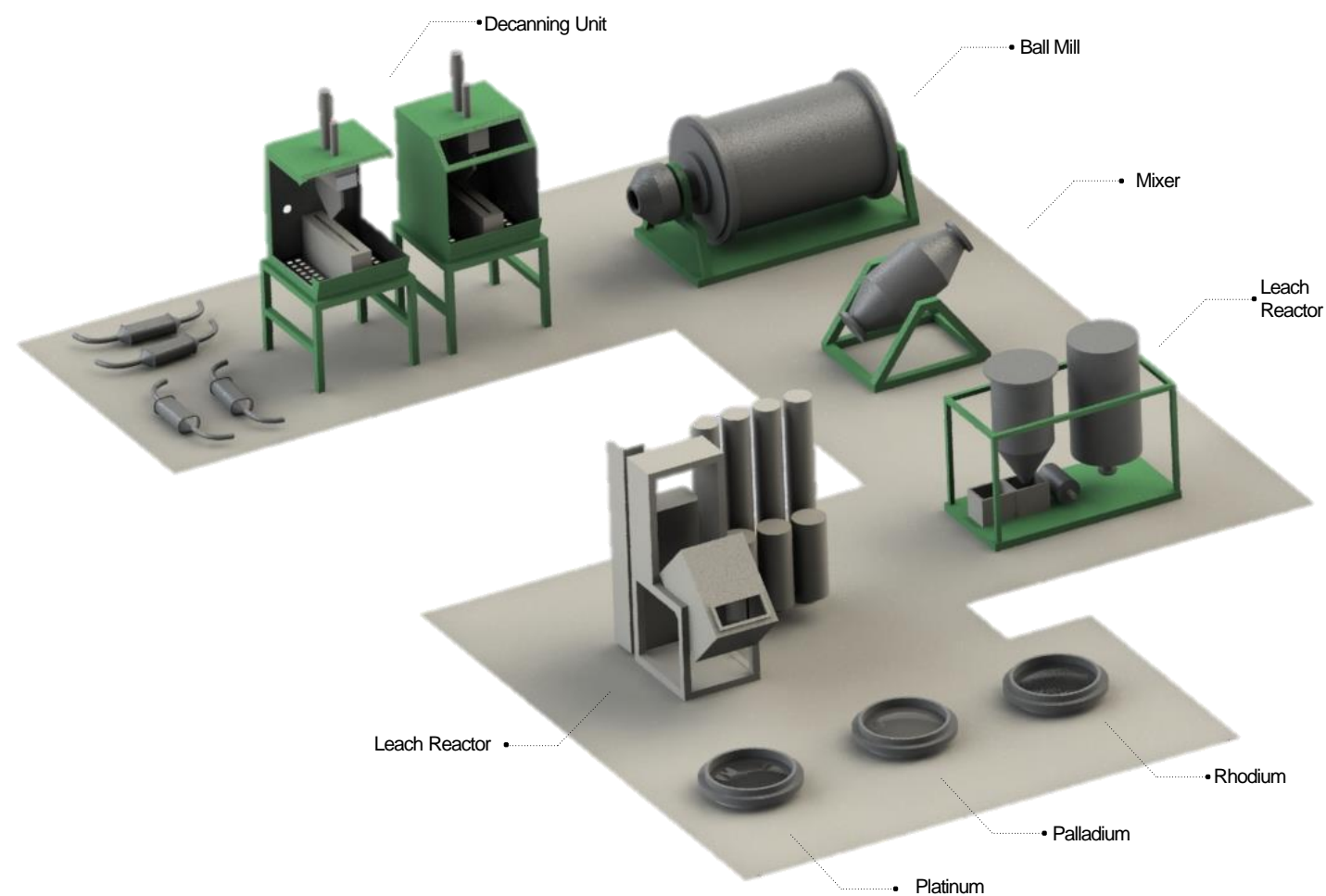
## Catalytic Converter Recycling & Refining Systems

Catalytic converters are essential components of vehicle exhaust systems for treating hazardous fumes. Our company offers three advanced decanning systems and a high recovery rate chemical operation system. Our chemical operation process is designed to operate at low temperatures and pressures, ensuring a shorter reaction time. It involves two distinct steps: Physical Separation and Chemical Operation.



### | Recycling & Refining Process |

Catalytic  
Converter  
Recycling  
Systems



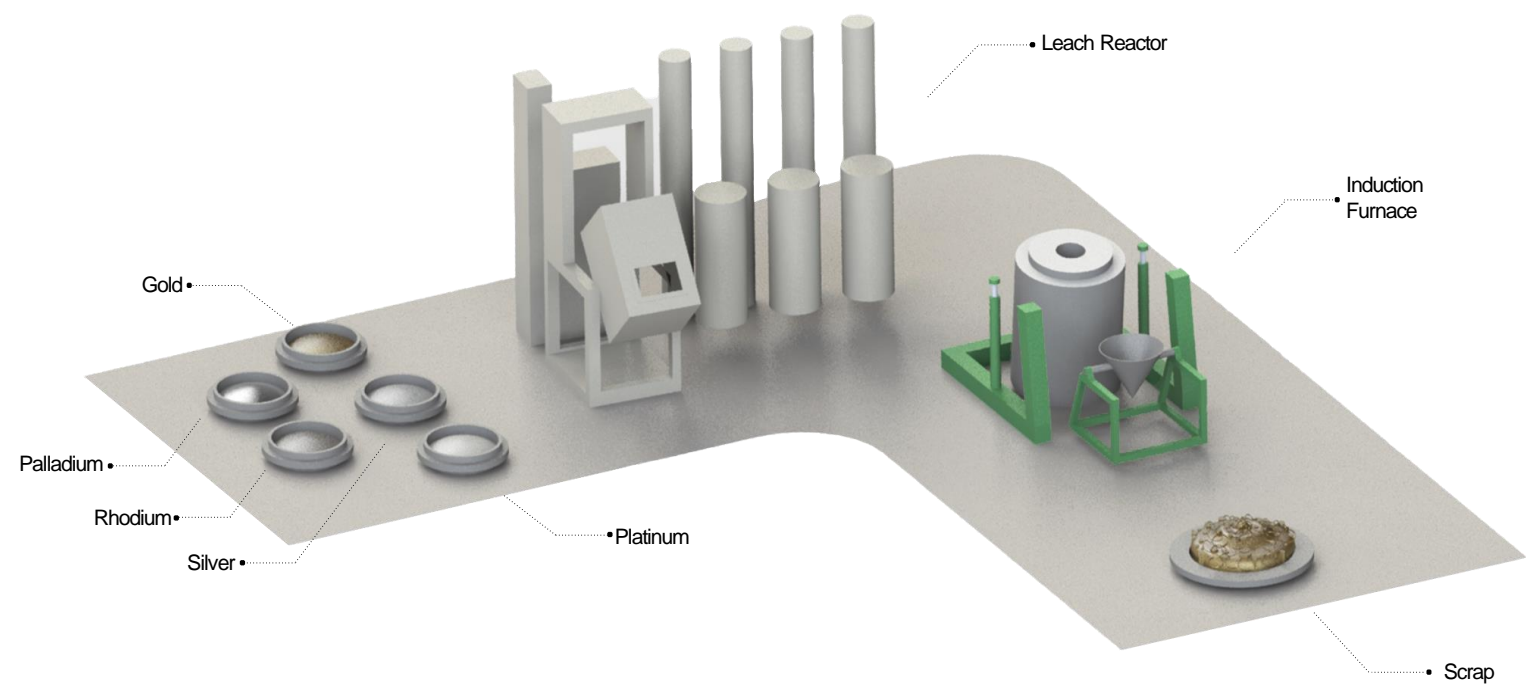
# Gold

## Gold Refining Systems

The Refining System incorporates various key components to facilitate its efficient operation. These components include an air treatment system, sedimentation tanks, a titanium reactor, chemical reserve tanks, and neutralization units. By encompassing these elements, the system operates under vacuum conditions while maintaining stringent safety measures.



### |Recycling & Refining Process|



# Mining

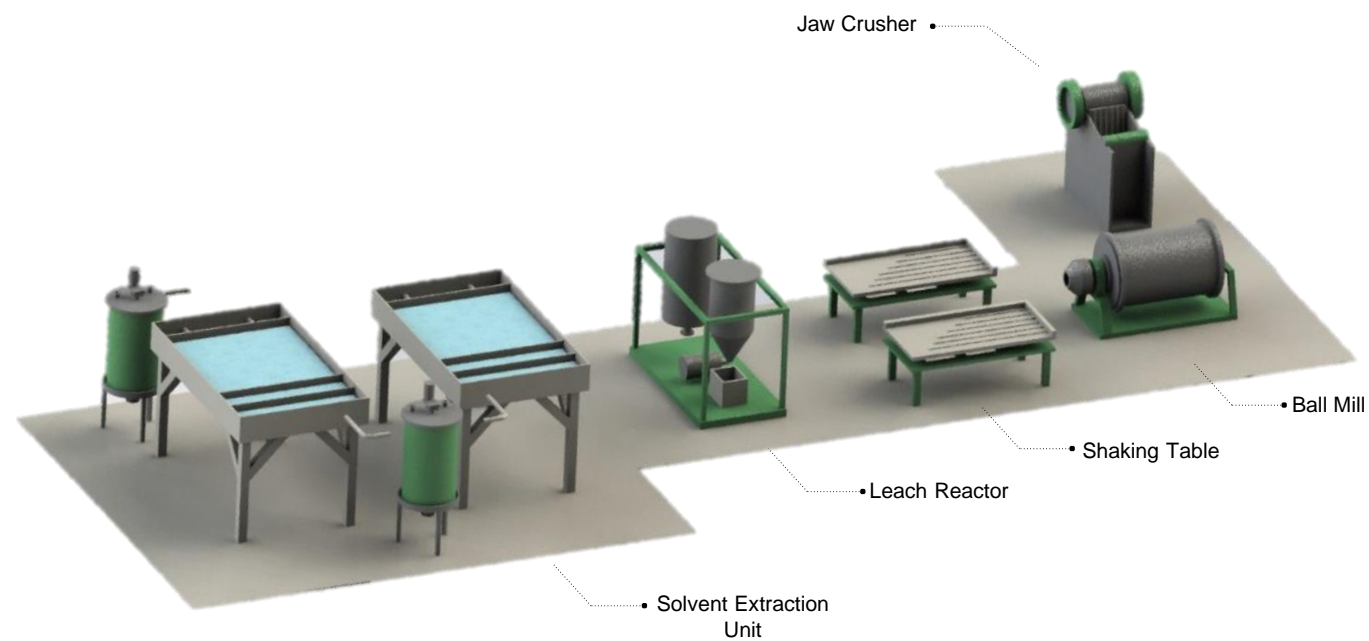
## Mining Machine Production

Proses Makina offers the design and implementation of comprehensive turn-key mining plants, offering end-to-end solutions. Their expertise encompasses the development of physical operations systems, incorporating beneficiation steps to optimize the extraction process. Proses Makina has its own mining laboratory to research and develop new process and technologies for the mining industry.



Mining  
Machine  
Production

|Recycling & Refining Process|

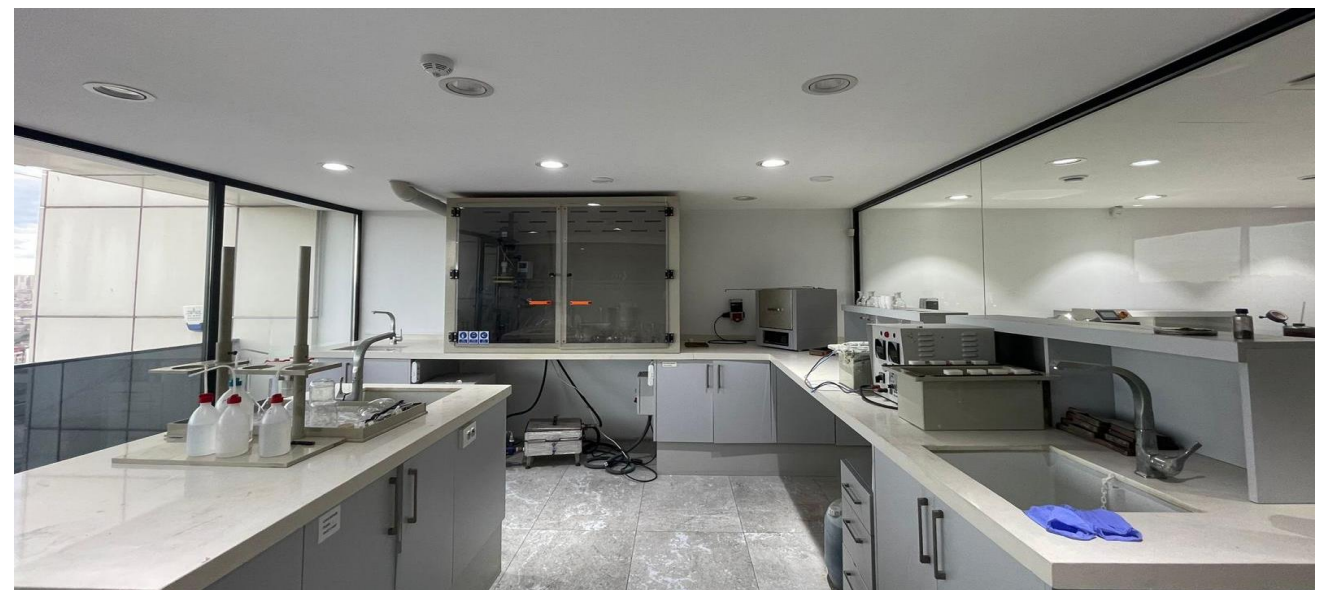


# R&D and Analysis

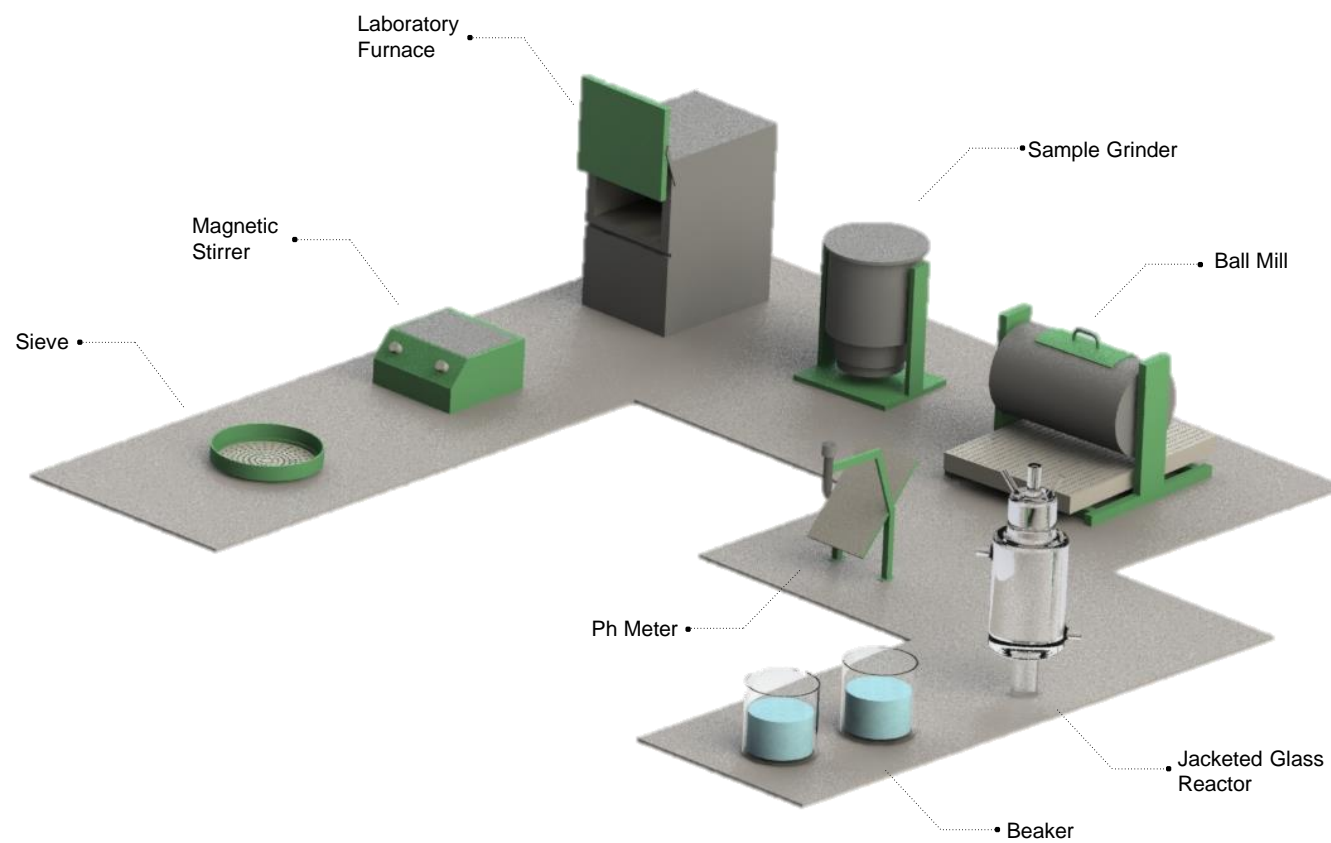
## Our Laboratories

Proses Makina offers laboratory services that include precious metal analysis, metal refining, customized process development, metallurgical consultancy, training and education, on-site testing and support, and environmental compliance services.

Our laboratory expertise allows customers to accurately analyze the composition and purity of precious metals, optimize refining processes, and ensure compliance with environmental regulations.



### | Laboratory Equipments |



# Furnaces

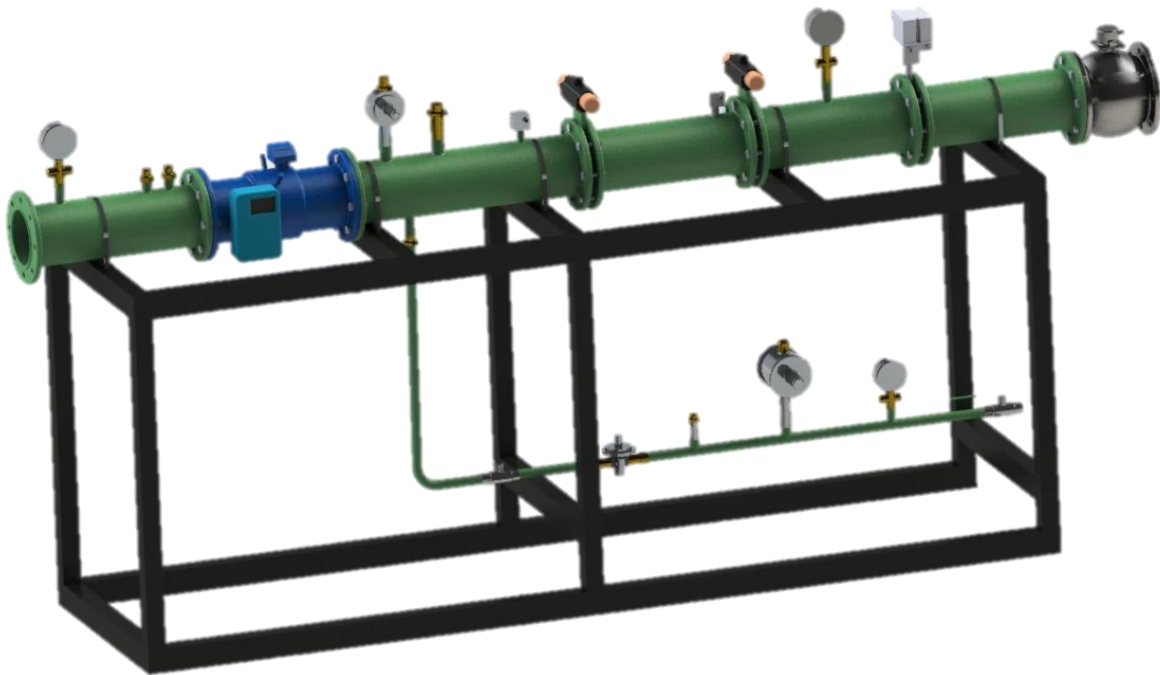
## Smelting Systems

Proses Makina can offer various solutions and services for smelting systems in the recycling and refining industry.

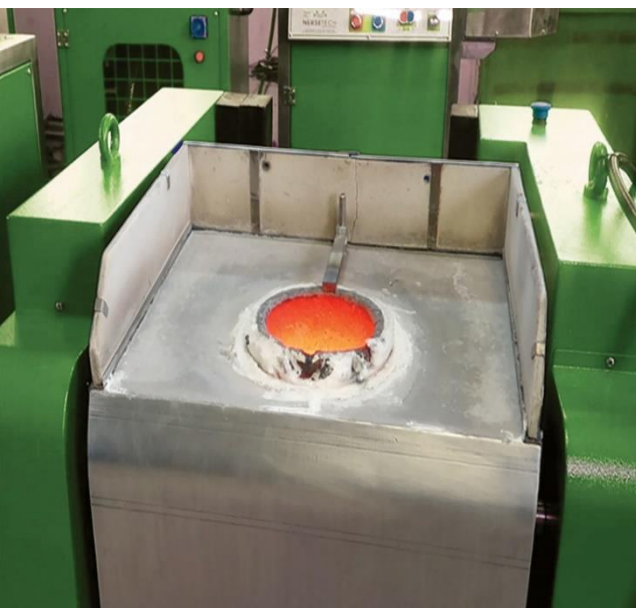
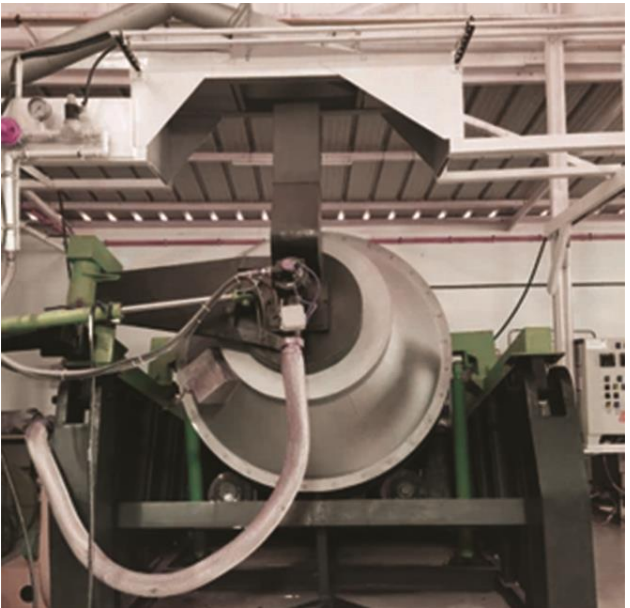
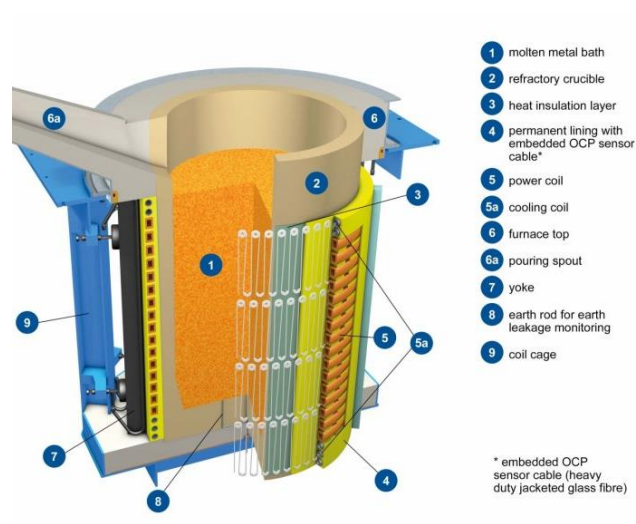
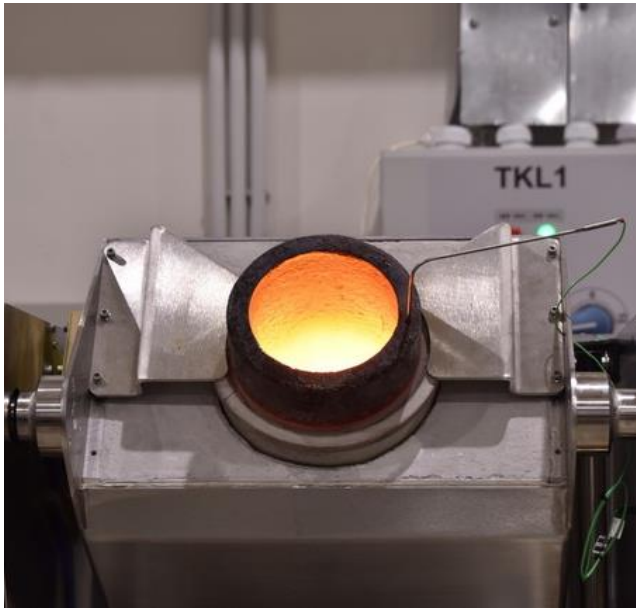
It's important to note that the specific offerings from Proses Makina for smelting systems may vary based on the expertise and customer requirements. The company's focus on providing tailored solutions and continuous improvement in the field of recycling and refining machines allows us to meet the specific needs of customers in the smelting process.

- Top Blown Rotary Furnace
- Top Blown Rotary Converter
- Tilting Rotary Oxygen Furnace
- Induction Furnace

Smelting  
Sytems



Burner System For TBRF/TBRC



# **Machinery for Sustainable Solutions**





## Contact & Location

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