

# emak

REFINING & RECYCLING  
[www.emakmakina.com](http://www.emakmakina.com)

## Turn-Key Precious Metal Solutions



E-Waste Recycling  
Systems




Catalytic Converter  
Recycling Systems



Mining Engineering  
& Consultancy



Precious Metal Refining  
& Recovering Systems



**EMAK REFINING AND RECYCLING SYSTEMS** founded in 1979 and serves Precious Metal Business ever since. As of today EMAK is exporting its own patented systems to over 50 Countries all around the world.

**EMAK Globally Provides Consultancy Services for,**

- Turn-Key Precious Metal Recovery Systems for all kinds of materials
- Turn-Key Precious Metal Recovery Systems for Electronic Waste's
- Turn-Key Precious Metal Recovery Systems for Auto and Refinery Catalysts
- Turn-Key Mining Projects and Chemical Processes

EMAK operates in 3000 square meter factory building which includes fully equipped R&D laboratory.

**EMAK is the only company that delivers,**

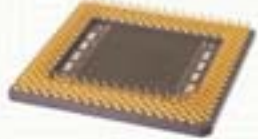
- Advance Engineering Consultancy
- Tailor Made Designs
- R&D cooperation
- Know - How Transfer
- After Sales Services with
- 35 Years of experience



## SYSTEM 1

### DIRECT GOLD RECOVERY

(from CPU's, RAM's, Plated Pins, Surface PM's)



999.9 Pure Gold Recovery  
99.5 Silver Recovery  
Environment Friendly Operation  
3 Hours Operation Time  
Easy to Use  
Global Warranty  
Low Energy and Labour Cost

## SYSTEM 2

### FERROUS / NON-FERROUS SEPARATION

(PCB Crushing & Separation Operation)



Perfect Physical Separation  
(non-ferrous / Ferrous / Plastic)  
Starting from 500Kg/day  
Easy Upgrade to Complete System  
User Friendly and Easy to Use  
Environmental Friendly  
Minimum Space and Running Cost  
Can Combine with **SYSTEM 1**

## SYSTEM 3

### CRUSHING & SEPARATION + TIN AND LEAD SEPARATION + NON-FERROUS BAR CASTING



Perfect Physical Separation  
(non-ferrous / Ferrous / Plastic)  
Starting from 500Kg/day  
Easy Upgrade to Complete System  
User Friendly and Easy to Use  
Environmental Friendly  
Minimum Space and Running Cost  
Can Combine with **SYSTEM 1**

## SYSTEM 4

### COMPLETE PRECIOUS METAL RECOVERY SYSTEM



9999 Au, Ag, Cu & PGM Recovery  
Complete Physical Operation  
Environment Friendly Operation  
Complete Know-How Transfer  
Cupellation and Electrolysis  
Easy to Use and Upgrade  
Low Energy and Running Cost  
Starting from 1 Ton and above  
Global Warranty

**ELECTRONIC WASTE** problem increases rapidly each year. Parallel to the waste problem, need for refining and recycling became a necessity.

**EMAK** provides, fully independent turn-key refining and recycling solutions. You can get the most out of e-wastes with our systems.

### From E-Wastes you can recover

9999 Purity GOLD  
9999 Purity Silver  
999 Purity Pd, Pt, Rh  
9999 Purity Copper



### Installation and Training

Continuous R&D Support  
Turn-Key installations  
Complete Know How Transfer  
%100 Customer Satisfaction

### EMAK Provides

Advance Engineering Consultancy  
Tailor Made Designs  
After Sales Services with 35 years of Experience

**RECOVER PRECIOUS METALS  
BY YOURSELVES!**



## CATALYTIC CONVERTER RECYCLING SYSTEM

**SHORT RETURN OF INVESTMENT**

**FULL R&D SUPPORT AND KNOW-HOW TRANSFER**

**ENVIRONMENTAL FRIENDLY OPERATION**

**UNIQUE AND EFFECTIVE RECOVERY PROCESS**

**LOW LABOUR AND RUNNING COSTS**

**TECHNOLOGY UPDATE**

**INDEPENDENT RECOVERY AND REFINING**

### TURN - KEY PHYSICAL SYSTEM

PLC Hydraulic Cutter  
Catalytic Opener  
Dust Collecting System  
Milling System  
Homogenize Sampling  
XRF Analysis Devices



### TURN - KEY CHEMICAL RECOVERY SYSTEM

PLC Hydraulic Cutter  
Catalytic Opener  
Dust Collecting System  
Milling System  
Homogenize Sampling  
Leaching System  
Sedimentation System  
Precious Metal Recovery  
Waste Neutralization System  
Laboratory + XRF Analysis



### REFINERY SERVICES:

**EMAK**, runs its own **REFINERY** in **ISTANBUL - TURKIYE**.

**EMAK** provides **REFINING SERVICES** for its customers.

In our high standard laboratories we analyze your catalytics and than give you the **best prices on the market**.

Please contact: [emak@emakmakina.com](mailto:emak@emakmakina.com)

Every year we receive hundreds of samples from all over the world to be analyzed in our laboratories.



Each mine has its own finger prints and each finger prints needs a special attention to reveal the values it contains.

**EMAK** with its own expert R&D team and fully equipped laboratories serves its customers with process design, system tools and operational design soonest possible.

**EMAK Provides;**

*Full Consultancy Services*

*Complete Refination Process*

*Analysis and Feasibility Reports*

*Turn-Key Mining Projects*

*LMBA Standard Results*

*R&D / Know How Support*

According to analysis results **EMAK** provides services to its customers  
**FROM DUST TO CERTIFIED BARS**

**LMBA STANDARDS**

**BE YOUR OWN REFINERY!**  
(REFINE & RECOVER YOUR PRECIOUS METALS BY YOURSELF)

**\$7 / Kg REFINING COST!**

**999,9% PURITY OUTPUT!**

**COMPLETE KNOW - HOW TRANSFER  
ENVIRONMENT FRIENDLY OPERATION**

**EASY TO USE**

**TURN-KEY INSTALLATION**

**UNBREAKABLE TITANIUM REACTOR**

**BUILT-IN SCRUBBER SYSTEM**

**LMBA STANDARD COMPLIANCE**

**DIRECT PRECIOUS METAL ACHIEVEMENT**

**MAXIMUM PROFIT IN SHORT TERM**

**NON-CYANIDE OPERATIONS**

**TAILOR MADE SOLUTIONS**

**STATE OF THE ART TECHNOLOGY**

**FAST OPERATION**

**SUPERIOR DURABILITY**

**EMAK REFINING AND RECYCLING SYSTEMS**  
provides the newest and the most reliable Refining  
and Recycling System to its customers.

Our Refining and Recycling Systems designed to  
recover The **Precious Metals** to its purest form



**WE ARE READY IF YOU ARE!**



**America**

**Canada** Ottawa / Toronto  
**Mexico** Guadalajara / Mexico City  
Mexico City  
**USA** Atlanta / Miami  
Sacramento  
Charleston

**Australia**

**Australia** Gold Coast  
Melburne  
Sydney  
**New Zealand** Auckland

**Africa**

**Algeria** Batna / Alger  
**Egypt** Cairo  
**Libya** Tripoli  
**Mali** Timbuktu  
**Morocco** Casablanca  
**South Africa** Johannesburg / Pretoria  
**Tanzania** Dar es Salaam  
**Tunisia** Sfax

**Europe**

**Turkey** Istanbul / Izmir / Mersin  
Ankara / Mersin / Antalya  
Gaziantep  
**Belgium** Brussels  
**Bohemia** Ljubuski  
**Bulgaria** Plovdiv  
**Croatia** Zagreb  
**Germany** Köln  
**Greece** Athens / Crete  
Larissa / Thessaloniki  
**Italy** Pordenone  
**Kosovo** Ferizaj / Pec  
**Macedonia** Skopje  
**Norway** Oslo  
**Poland** Lodz  
**Romania** Bucharest / Timisoara  
**Russia** Moscow / Kostroma / Pokrov  
Pavlovsky Posad /  
Novi Sad  
**Serbia** Bratislava  
**Slovakia** Bratislava  
**Spain** Barcelona / Malaga  
**Ukraine** Odessa / Kiev / Lviv  
Kramatorsk Zaporozhye

**Asia**

**Armenia** Yerevan  
**Azerbaijan** Baku  
**China** Shenzhen  
Guangdong  
Mumbai  
Istanbul / Osm  
Tehran  
Karbala  
**Iran** Amman  
**Iraq** Yavne  
**Jordan** Amman  
**Israel** Yavne  
**Kazakhstan** Almaty  
**Malaysia** Penang  
Kuala Lumpur  
Yangon  
**Myanmar** Yangon  
**Pakistan** Karachi  
**Pakistan** Karachi  
**Pakistan** Al-Khali  
**Saudi Arabia** Jeddah / Riyadh  
**Syria** Damascus  
**Singapore** Singapore  
**S. Korea** Seoul  
**Tajikistan** Dushanbe  
**Tajikistan** Ashgabat  
**UAE** Dubai / Sharjah  
**Vietnam** Hanoi