

mairrec
Precious Metals Recycling

PRECIOUS METALS FOR THE NEXT GENERATION

MAIREC utilizes innovative methods to recover valuable precious metals from various waste and scrap materials. In doing so, we are ensuring that the needs of future generations are met by securing much-needed raw materials for the next generation of computer processors, mobile phones and autocatalysts.



Julia Maier
President



Thomas Maier
President



MAIREC IN NUMBERS

MAIREC was founded in 2003 by Julia and Thomas Maier in Alzenau, Germany. It has since evolved into an international company with a global presence while successfully maintaining its family-business roots.



*Status: 31.12. Change of fiscal year 2013/2014, Status 30.06.
 **incl. MAIREC Precious Metals U.S. since 2015/2016



METAL GROUPS

22	1656,85	23	1901,85	24	1856,85	25	1245,85	26	1534,85	27	1494,85	28	1452,85	29	1084,65	30	419,73	31	297,6	32	988,25
Ti		V		Cr		Mn		Fe		Co		Ni		Cu		Zn		Ga		Ge	
Titanium		Vanadium		Chromium		Manganese		Iron		Cobalt		Nickel		Copper		Zinc		Gallium		Germanium	
40	1851,85	41	2467,85	42	2616,85	43	2196,85	44	2333,85	45	1965,85	46	1551,85	47	960,85	48	321,18	49	156,73	50	232,06
Zr		Nb		Mo		Tc		Ru		Rh		Pd		Ag		Cd		In		Sn	
Zirconium		Niobium		Molybdenum		Technetium		Ruthenium		Rhodium		Palladium		Silver		Cadmium		Indium		Tin	
72	2232,85	73	2995,85	74	3406,85	75	3176,85	76	3126,85	77	2442,85	78	1771,85	79	1064,58	80	39,15	81	303,85	82	327,65
Hf		Ta		W		Re		Os		Ir		Pt		Au		Hg		Tl		Pb	
Hafnium		Tantalum		Tungsten		Rhenium		Osmium		Iridium		Platinum		Gold		Mercury		Thallium		Lead	

- Main groups
- Subgroups
- Not part of the MAIREC process

MAJOR CATEGORIES OF RECYCLED MATERIALS



Catalytic converters



Electronic scrap



Wiping tissues, pastes, filters, sludges and solutions



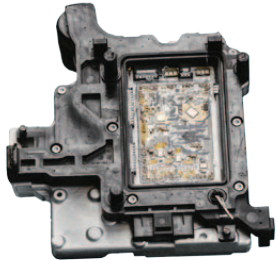
Chemical catalysts



Sweeps, slags and crucibles



Industrial ceramics



Composite material



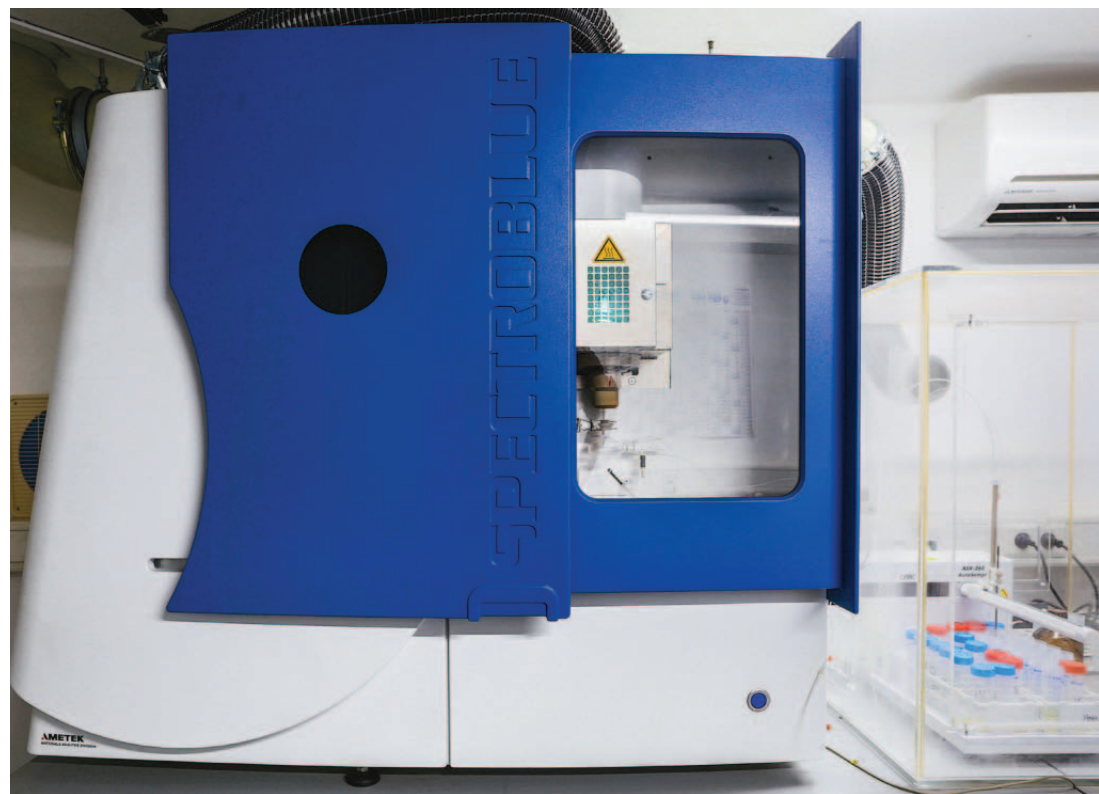
Bullions



EXTENSIVE EXPERIENCE AND BROAD KNOW-HOW IN THE AREAS OF MATERIAL SEPARATION, HOMOGENIZATION, SAMPLING AND VALUE-DETERMINATION OF A WIDE SPECTRUM OF PRECIOUS METAL BEARING MATERIALS.

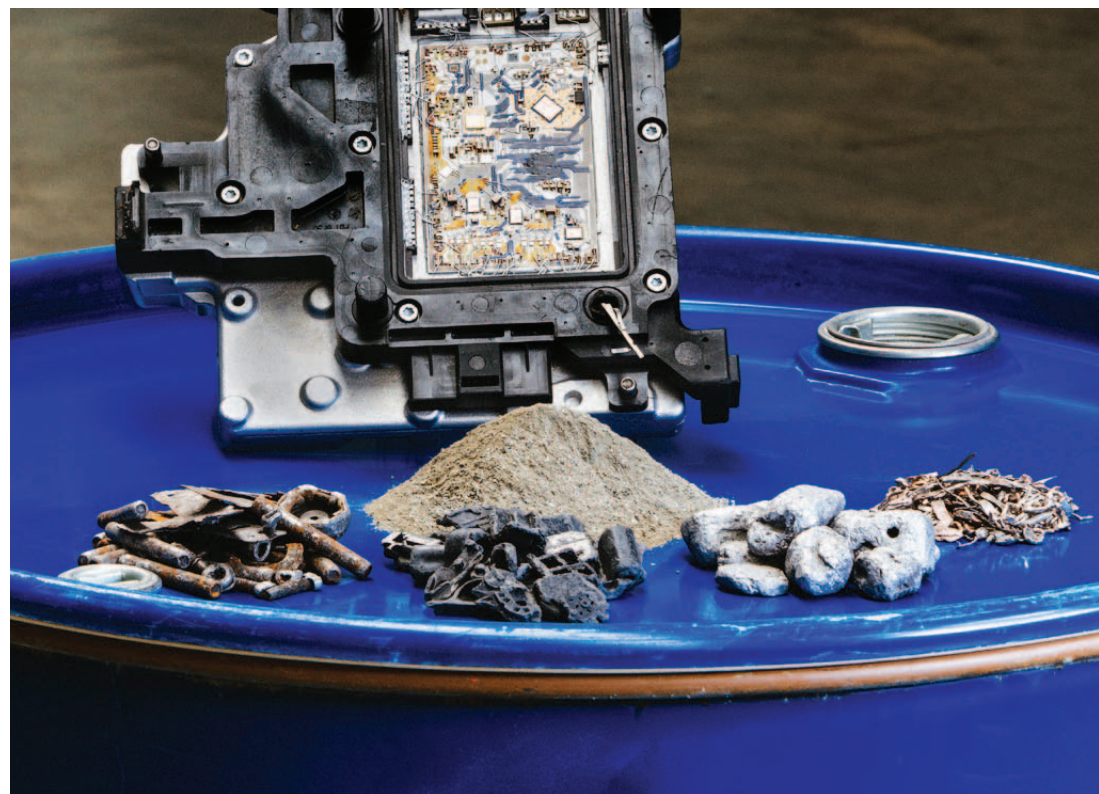
PREPARATION OF A **100 GRAM** SAMPLE TO ACCURATELY
REPRESENT A TOTAL VOLUME OF **10 TONS** – THAT IS THE KEY.





COMMITMENT TO THE HIGHEST ACCURACY AND
PRECISION OF ASSAYS WITH A STATE-OF-THE-ART FIRE
ASSAY AND WET CHEMICAL LABORATORY.

ENHANCEMENT OF ADDED VALUE BY OPTIMIZING
MATERIAL SEPARATION.



ALGUM SUCCESSFULLY SEPARATES RUBBER FROM STEEL RESULTING IN THE DECREASE OF MATERIALS DESTINED FOR INCINERATION AND LANDFILLS.

Developed in collaboration by the partners of MAIREC and UMTEC, the innovative process allows to separate steel and non-vulcanized rubber in such a way that both materials may once again be used to manufacture new products.

Steel cord as a by-product of tire manufacturing is no longer regarded as waste and can be reintroduced into the cycle of useful materials.



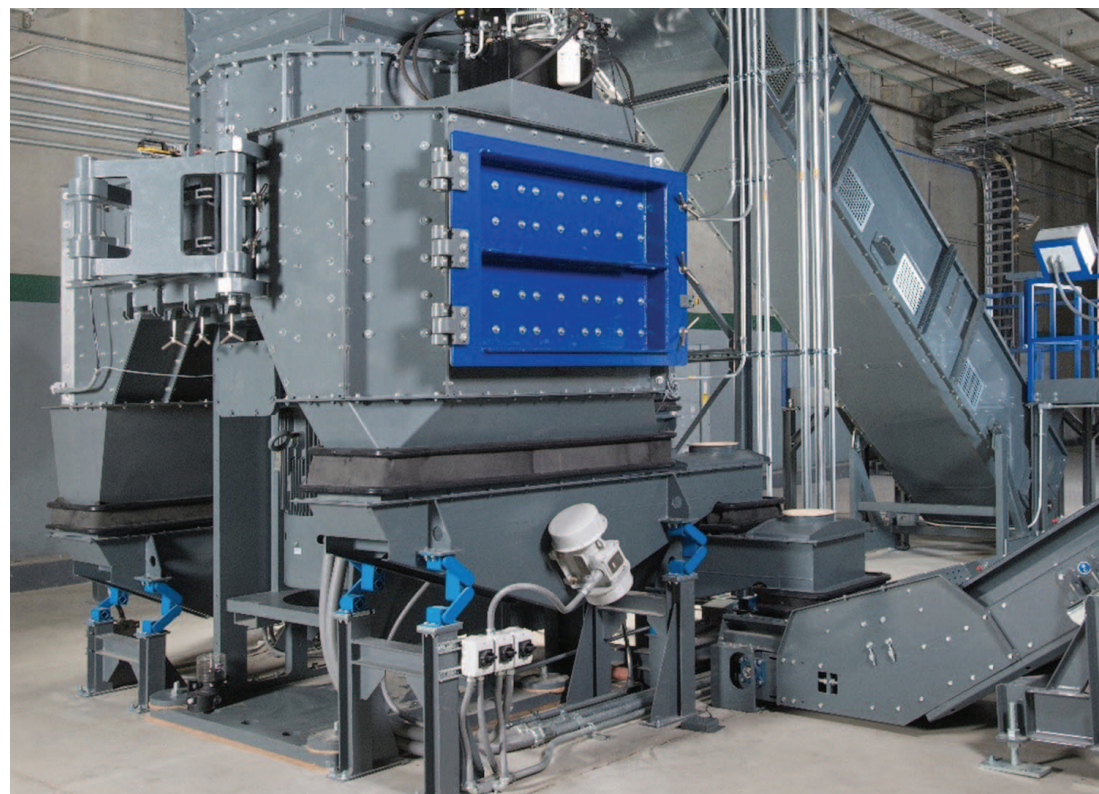


A light gray world map is centered in the background. A dark gray curved arrow starts in the European region and points towards the Southeastern United States, specifically the area around Spartanburg, South Carolina.

UNIQUE IN THE WORLD

MAIREC's U.S. facility in Spartanburg, South Carolina processes entire ceramic catalysts within a closed system without requiring manual disassembly reducing lead times, increasing value, and improving efficiency and safety. This unique process is one-of-a kind in the world. Developed by MAIREC, it secures our place as a market leader in innovation, technology and customer focus.







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