



IN HOUSE PRECIOUS METAL RECOVERY



# WELCOME TO NOBRA!

Nobra GmbH recycles industrial waste to extract precious metals for reuse. Sustainability plays an important part in our success. But its not just the environmental aspect that counts, it extends to building lasting customer and employee relationships. Please read on to find out more about our company philosophy and the way we work.



**Norbert Brand**  
Managing Director Nobra GmbH



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# WE PUT THE **PRECIOUS** BACK INTO METAL.

Sustainability is not a just a buzzword to us, it has been integral to our business for more than 30 years. That business is the recovery of high value, highly marketable raw materials – primarily gold (Au), silver (Ag), platinum (Pt), palladium (Pd), rhodium (Rh) and ruthenium (Ru) – from industrial by products.



By exposing industrial waste to high temperatures, we reduce impurities to ash, leaving a concentrated residue that is milled, blended and laboratory tested, allowing its metal content to be determined. Thanks to the large scale of our plant and highly efficient procedures, we will be in a position to reimburse you with a credit for the recovered metals within six to eight weeks.

We make use of all the latest technologies and follow precision working practises, providing you with an end-to-end service. Each stage of the process is explained to our customers and fully documented – helping us to forge strong working relationships, based on trust. We have

long standing partnerships with many clients comprising numerous mid-sized and larger businesses across the world.

Originally set up by Norbert Brand in Offenbach in 1980, the business already laid great importance in recycling, at a time when industrial by products containing precious metals were simply dumped. He still stands by his motto of ‘we are thinking ahead’, which has proven to be a highly successful strategy for promoting the healthy growth of the business.

Nobra GmbH currently has 30 full-time employees and is still headquartered in Offenbach. The industrial unit has been based in Rippershausen, Thuringia since 1991, where we started with a single furnace, but now operate sixteen. As a mid-sized, family run business, we offer our clients the considerable advantages of flexibility, fast turnaround times, a quick decision making process and service tailored to their individual needs.

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COMPANY PHILOSOPHY FOR MORE  
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“ OUR CLIENTS CAN BE SURE THAT WE USE THE MOST RELIABLE AND EFFICIENT REPROCESSING METHODS, LEAVING PRACTICALLY NO WASTE.

# PROFESSIONAL TO THE END.

We work with many industry sectors that produce industrial by products containing precious metals.

Our clients can be sure that we use the most reliable and efficient reprocessing methods, leaving practically no waste. We also follow strict recycling guidelines; with all processes adhering to internationally agreed standards covering environmental impact, handling industrial waste, management of hazardous materials and employment laws. We are a certified specialist recycling business and are approved by German federal laws for emissions from waste reprocessing. Quality control, environmental impact and energy management are further certificated according to ISO 9001, ISO 14001 and ISO 50001 respectively, plus we have an approved credit rating.



# SERVICE IS A SEAMLESS PROCESS.



“ ALL FROM ONE SOURCE. WE CAN SAVE YOU EFFORT.

## TRANSPORT

Waste materials are picked up by our own vehicles, which are fully compliant to carry dangerous goods. We can also provide on site collection containers on request. This option saves time and administration since we take care of all the formalities for you, even if we use third party carriers. As soon as the waste arrives at our plant, it is weighed by calibrated scales and compared to the stated pick-up weight.

## TESTING OF MATERIALS

Your delivery is allocated a processing number for ease of tracking through all stages of the reprocessing and sample analysis. The waste is then examined, to establish the optimal recovery method. Mechanical preparation of the waste is completed by a number of different macerators and any sensitive materials are shredded immediately on arrival at our depot.

## THERMAL PROCESSING

Preparation of waste materials commences with volume reduction by means of a thermal process, where all organic elements are reduced to ash. We have access to two different installations for this process, depending on the nature of the material to be processed. A decision is therefore made to determine the best choice of process and the optimum temperatures involved.

## MACERATING, BLENDING & LABORATORY TESTING

The cooled embers are ground up in ball mills and homogenised in aggregators. Only precision, even blending produces a sample that is truly representative of the total batch.

## ANALYSIS

The sample is first tested in our on site lab. We then prepare it for analysis in an external, independent lab and dispatch it.

## SETTLEMENT OF ACCOUNTS

Six to eight weeks after delivery of the waste to our plant, we will credit you for the recovered metal content, less reclamation costs, based on the analysis.





“OUR CUSTOMERS CAN BE ASSURED OF OUR CONSCIENTIOUS TREATMENT OF WASTE MATERIALS AND CAREFUL PROCESSING METHODS.

## EXPERIENCE AND PRECISION. WORKING PRACTISES YOU CAN TRUST.

We are proud of our precise and environmentally sound working practises, which are central to our business. From transport to reprocessing, analysis to billing, our high levels of quality control at each stage of the process are made possible by our trusted team and wide experience of recovering precious metals. We also employ the latest methodology and industry-leading technology.

Our customers can be assured of our conscientious treatment of waste materials and careful processing methods. We put great emphasis on our abilities to extract the highest possible yield from industrial by products, including reprocessing waste from our own filters. Comprehensive documentation of our work is just as important to us, with each delivery being tracked at each stage. The reprocessing plant and lab are both CCTV monitored.





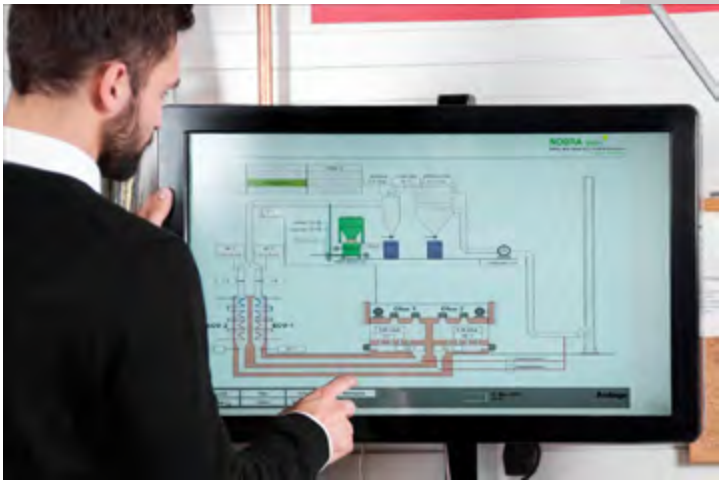
# THE LATEST TECHNOLOGY KNOW-HOW.

Latest plant technology, high capacity reprocessing and unique know-how, make us one of Europe's leading precious metal recovery businesses.

The incineration process is highly dependent on the choice of technology and a stable processing temperature. We currently run sixteen furnaces, which allow optimised processing of a wide variety of by products. The impact of toxic waste is kept to a minimum, with the environmentally regulated processing of dangerous materials guaranteed.

We also operate a number of different macerators for the preparation of waste materials, together with a choice of ball mills and blenders with different capacities. All machinery is operated at peak efficiently and to exacting standards.

Efficiency and working practises of the highest quality deliver the best results – providing or clients with great value for money.



“ NOBRA GMBH IS ONE OF EUROPE’S LEADING  
PRECIOUS METAL RECOVERY COMPANIES.





# PRECISON ANALYSIS

The basis of accurate analysis is a first class sample. Following thermal treatment, waste materials are finely ground and thoroughly blended. Great care and attention is taken at this stage, as it is vital to the outcome. The finer the consistency, the better the sample – and the more accurately it will represent the full volume.

On request, we can provide a sample of the test material, or you may wish to attend the test yourself or send a representative. An initial outcome is produced by our on site lab, followed by further analysis by an

external, independent source. We retain samples, for the purpose of later queries, for a period of six months.

If we are dealing with a new by product, we will produce a sample at no cost to the client. We will first need to establish whether the waste is suitable for our current methods, or whether we have to develop a new, customised process.



# PAYMENT

TRANSPARENT, COMPREHENSIVE & FAST.



Payment for the recovered metal will be credited to you between six to eight weeks after delivery of the waste to us.

The value of the precious metal content, established during the sampling and testing process, is credited to you, based on the daily price. There are a number of different options open to you:

- Immediate bank transfer of funds
- Credit paid to a precious metals account
- Delivery of the metal in the form of bars, granules e.g. for processing, transport being arranged by us

Your bill will provide full transparency: all data will be clearly stated, including delivered quantities, weight of ash residues, and of course the quantity of recovered metals, commodity day rates and the lab test report. Processing costs will be provided by separate bill.





# SUSTAINABILITY IS OUR BY WORD.

Sustainability plays an important part in our success as a business. But its not just the environmental aspect that counts, it extends to building lasting customer and employee relationships.

The fact that we reclaim precious metals is proof enough of our sustainability credentials, but how we achieve this is equally significant. Employing modern, highly efficient technologies and taking the greatest of care during the entire process, means we conserve resources and energy. As a result, even the heat produced by the furnaces is partially captured and used.

The fact that we take our responsibilities seriously, is further proven by our environmental management certification ISO 14001. We have set ourselves environmental targets, which are continually challenged and revised.

Of course, sustainability is also a key consideration for our management. We have invested heavily in our plant in Germany and our experienced, well-trained staff. Long-term employment contracts and benchmarked salaries are standard – together with a good working environment and a free canteen for all employees.

In addition, we continually invest in new technologies and are developing our business and offering. This allows us to provide our clients with a first class service.



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ANYTHING ELSE?  
LET’S TALK.

Are you seeking specialist solutions for your business? If you have any further questions, would be interested in a meeting (without obligation) or would like a free evaluation of your waste products, we would be delighted to talk to you and explain how we could help:

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