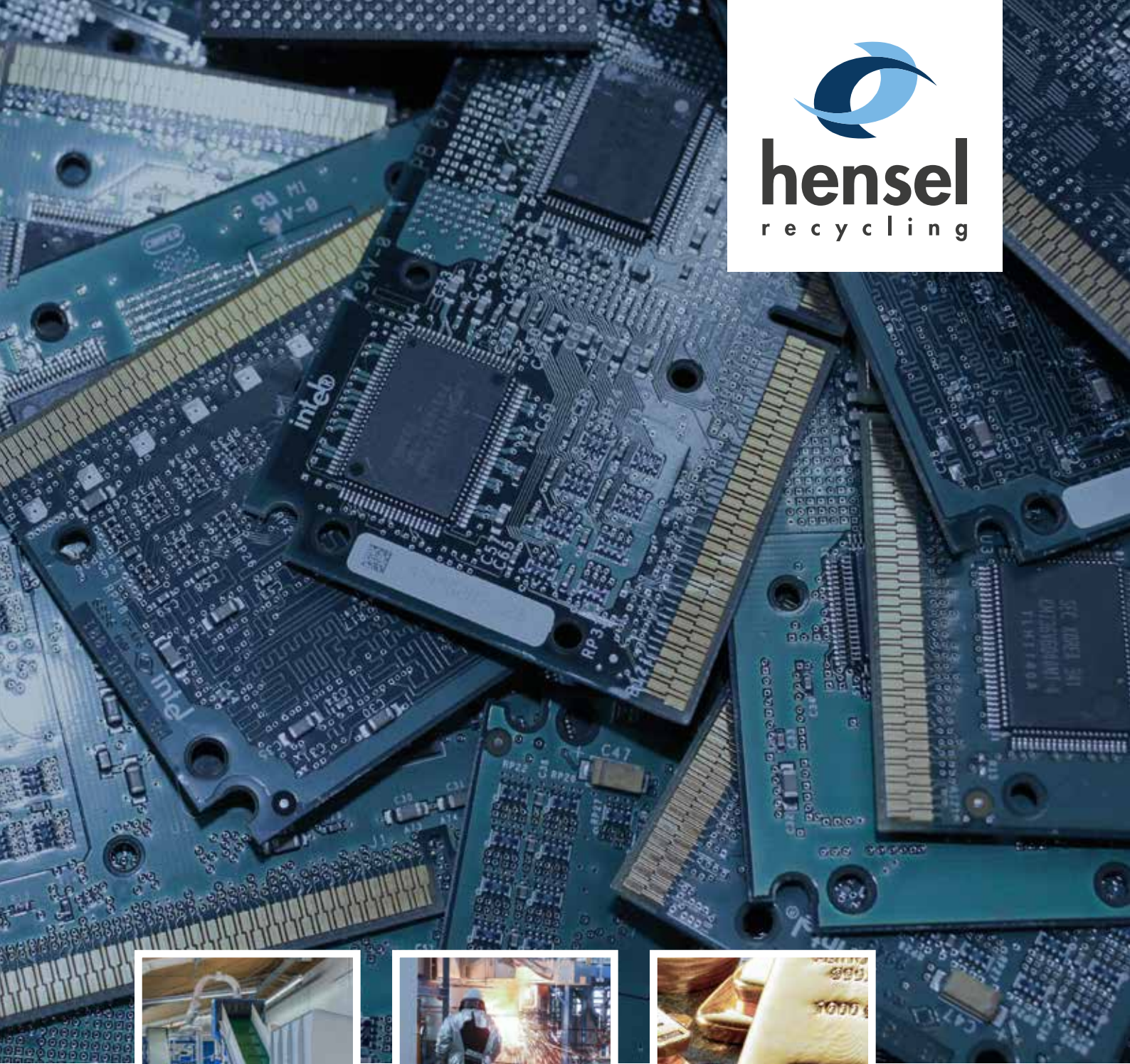


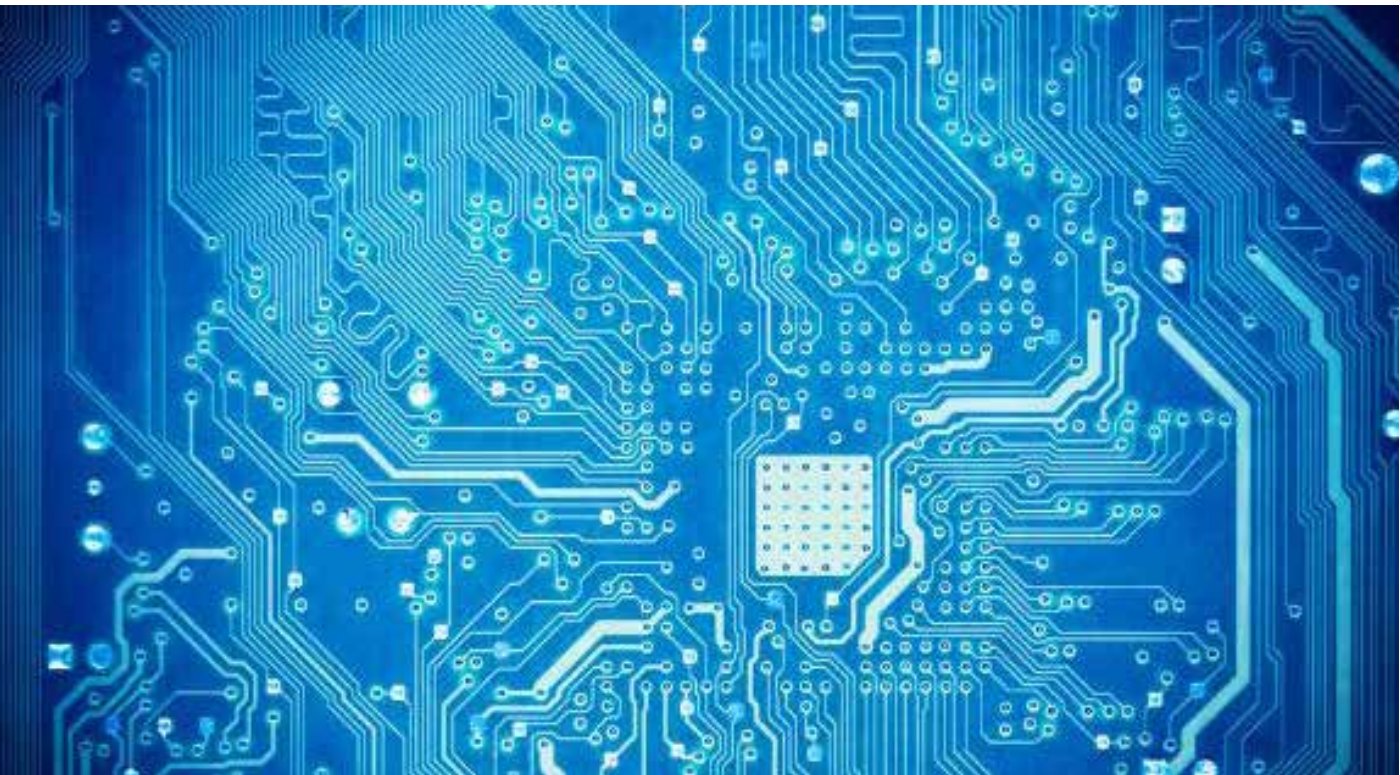


hensel
recycling



your first choice

PRECIOUS METAL RECOVERY
FROM ELECTRONIC SCRAP



PRECIOUS METAL RECYCLING FOR THE DIGITAL WORLD OF TOMORROW

Secondary raw materials for electronic components

Without computers the world would stand still. They carry messages, control, regulate, measure and automate processes. Many of the electronic components involved can only work because of precious metals, with their extraordinary chemical and physical properties. At the end of their useful life, the valuable raw materials need to be recovered and put to new applications.

When the lifecycle of the device is over, the issue is to recover sustainably and economically the valuable raw materials for new applications. We offer you bespoke recycling solutions for this purpose, preparing an appropriate recycling concept based on the material type and quantity.

Hensel Recycling is your first choice in the conservation of precious metals. You can trust our experience and expertise because precious metals are our passion – since 1998.

TODAY STILL IN THE DEVICE, TOMORROW ALREADY PRECIOUS METAL

Electronic components in precious metal recycling

Along with printed circuit boards, numerous components containing precious metals are found while dismantling electronic scrap. In the following pictures you will find a few materials for which we can offer you cost-effective recycling solutions. Our electronic scrap catalogue will provide you with a detailed overview.



PCBs



RAMs



Slot-CPUs



Plug-in cards



CPUs



Handy Boards

This is how your materials for recycling should be sent

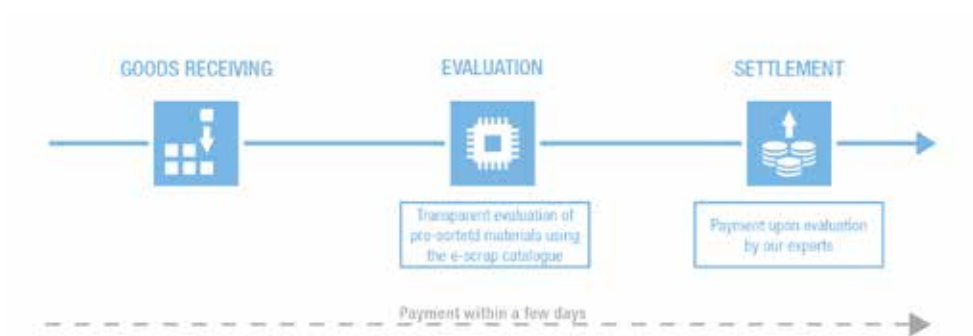
We recycle printed circuit boards and electronic components with waste code numbers 16 02 14 & 16 02 16. Please ensure the material is dry and large pieces of metal, frames or pipes have been removed. The material must also not contain any contamination or other harmful or dangerous substances. These substances include in particular disposable batteries, rechargeable batteries (particularly lithium-ion rechargeable batteries), components containing mercury, capacitors and components containing PCB or PCT as well as radioactive material.

PURCHASING SERVICE

Quick and easy evaluation on site

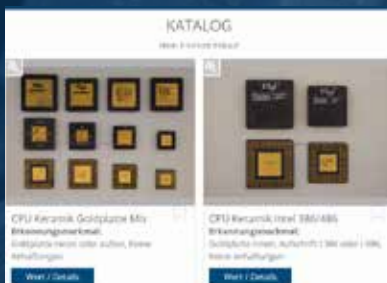
We will be happy to clarify on site whether the electronic scrap you've collected has a high or a low precious metal content. You can find more information in our electronic scrap catalogue which shows the different classifications. We will gladly purchase your materials according to the classification in our e-scrap catalogue. Prices are based on daily precious metal prices.

We offer you real added value for correctly sorted components from which harmful substances have been removed: accelerated assessment and billing as per our price list. Goods that have not been sorted are evaluated as a whole based on a visual estimation.



You can rely on

- Fair and transparent valuation by experts
- Prompt payment
- Environmentally-friendly processing of your materials



The electronic scrap app – up-to-date and transparent

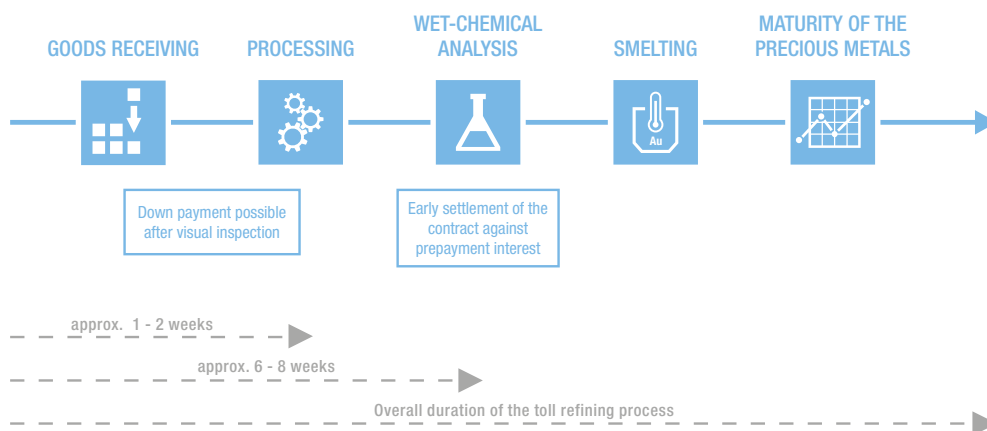
All the electronic components containing precious metal we purchase are recorded with an image and the corresponding classification in our database. We continuously check the components listed in relation to their categorisation and their value so that our database is always up-to-date.

You can use the app to estimate the value of your material in advance and request an offer directly. App available in the App Store.

TOLL REFINING

Settlement with flexible payment options

With toll refining, settlement is based upon a precise wet-chemical (ICP-OES) analysis. This is performed in a laboratory and is time consuming and costly, making this method more suitable for larger quantities. Our highly flexible payment plans offer you various options upon maturity of the precious metals.



Solutions for toll-refining customers

Our premium electronic scrap catalogue provides an initial overview of the value that can be obtained during processing. Here you will find the different material types with information on the value after processing and precious metal analysis. You can obtain further information from your personal contact.

Our flexible solutions upon maturity of the precious metals

- Fixing the precious metals with subsequent payout
- Run and manage a precious metal account

PROCESS RELIABILITY

Our know-how for your added value

Our plant, specially designed for smaller quantities, offers you flexible, sustainable, cost-effective recycling solutions. The electronic components, e.g. motherboards, CPUs or processors, pass through various shredding stages in a mechanical process. This shredded material can then be further processed directly by the refineries.



The subsequent sampling guarantees a specimen that is representative of the entire batch. We use wet-chemical analysis, based on the ICP-OES method.

Find out more in our electronic scrap film
(scan QR code and watch)





Advantages of wet-chemical analysis

The precious metal content can be accurately determined using wet-chemical analysis methods, e.g. ICP-OES (inductively coupled plasma with optical emission spectrometer). To this end, the homogeneous powder is converted into a liquid sample. The elements contained within it are then separated and a plasma flame can be used to make them visible. The relevant precious metal contents can then be picked out. **Find out more by scanning the QR code.**



COMPARE FOR YOURSELF

An overview of our services

We recycle your electronic components in a resource-saving and cost-effective manner. Whether your material is worth being sold or being processed depends on various factors such as current precious metal prices, the characteristics and quality of the material, as well as the quantity.

We would be pleased to advise you as to which model is best for you.

Range of services: Circuit boards and electronic components	Purchasing	Toll Refining
Support with the organisation of transport and with questions related to waste management legislation	✓	✓
Assessment and billing	using the Hensel Recycling classes (electronic scrap catalogue)	based on the ICP-OES analysis
Down payment possible	–	After delivery/ assessment
Settlement	within a few days	flexible payment options
Precious metal management	–	✓
Minimum quantity	1,000 euro goods value	500 kg of material
Maximum quantity	upon consultation	5,000 kg of material

your first choice

OUR EXPERIENCE – YOUR PEACE OF MIND

See for yourself how reliable we are

Precious metals are our passion. Our day-to-day work is characterised by long-term partnership, personal care and the highest level of precision in processing your materials – and we've been doing that since 1998. With us – your material is in expert hands: all our processes are certified in accordance with the most up-to-date quality standards, such as ISO 9001, 14001 and 45001, and continuously optimised. In the area of electronic scrap, we are also certified according to CENELEC (European Committee for Electrotechnical Standardisation) and as a primary treatment plant according to ElektroG.

We are there for you wherever you need us – at our headquarter in Aschaffenburg or through our numerous international locations. We'll take care of logistics, including organising proper customs clearance, clarifying terms of transport in line with waste disposal laws, and helping you prepare the necessary documentation.

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