PRECIOUS METAL RECOVERY
FROM INDUSTRIAL CATALYTIC CONVERTERS
Catalytic converters containing precious metals play an important part in many industrial applications in exhaust gas after-treatment. Irrespective of whether metal or ceramic carrier materials are involved, we offer a range of different options for these materials depending on the quantity. These options include toll refining, fast settlement and purchase.

Legal requirements and increased environmental awareness mean that catalytic converters containing precious metals can now be found in the following areas:

**Stationary applications**
- Biofuel and natural gas plants
- Coffee roasting operations
- Industrial plants

**Mobile applications**
- Lorries and buses
- Agricultural and construction equipment
- Ships and boats
Catalytic converters reduce emissions in all kinds of industrial applications. Precious metals, predominantly platinum, but sometimes palladium and rhodium as well, enable the environmentally friendly removal of pollutants to ensure the sustainable protection of our planet.

At the end of their useful life, the precious metals are recovered from industrial catalytic converters. We then return the secondary raw materials to the production cycle.

Hensel Recycling is your first choice when it comes to recovering precious metals from catalytic converters. You can trust our experience and expertise because precious metals are our passion – since 1998.

**OUR CONTRIBUTION TO CLEAN AIR**

*Used industrial catalytic converters as a source of secondary precious metals*
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. The toll refining process takes several weeks to complete.

Our flexible solutions upon maturity of the precious metals
» Exchange hedging for precious metals with subsequent payout
» Precious metal account with Hensel Recycling
» Precious metal account with a precious metal trader
» Physical provision of the precious metals, e.g. in the form of bars

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 to 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.
FAST SETTLEMENT
The ideal process for small quantities

Just a few days after receiving your ceramic catalytic converters or diesel particulate filters, your contract is ready for settlement. Our processing plant designed especially for this purpose makes even small amounts cost-effective. Settlement based on X-ray fluorescence analysis (XRF) is made 10 days at the latest after receipt of goods.

Small quantity sampling
Our specially developed small quantity sampling system benefits from short set-up times allowing fast processing with inline sampling.

PURCHASING SERVICE
Quick and easy evaluation on site

We also buy smaller quantities of metal catalytic converters from gas engines on site. Payment is made immediately after appraisal and collection by our experts.
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 and 14001, and continuously optimised.

One company meets all your needs
» Support in waste management issues
» Transport organisation and execution
» Precious metals trading and transfers

www.hensel-recycling.com