

your first choice

PRECIOUS METAL RECOVERY FROM INDUSTRIAL CATALYTIC CONVERTERS

FROM BIOGAS TO CARGO SHIP

Industrial catalytic converters and their applications

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.







Metal foil converters

Diesel particulate filters

Ceramic catalytic converters

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

Stationary applications







Coffee roasting operations



Industrial plants

Mobile applications



Lorries and buses



Agricultural and construction equipment



Ships and boats



OUR CONTRIBUTION TO CLEAN AIR

Used industrial catalytic converters as a source of secondary precious metals

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.

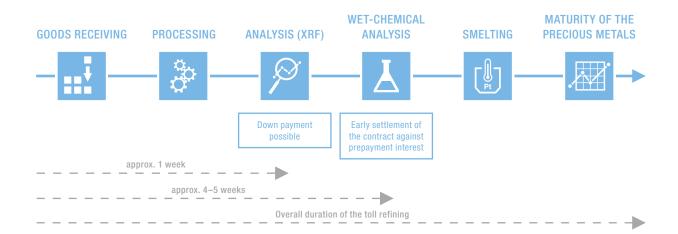
At the end of their useful life, the precious metals are recovered from industrial catalytic converters. We then return the secondary raw materials to the production cycle.

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.

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



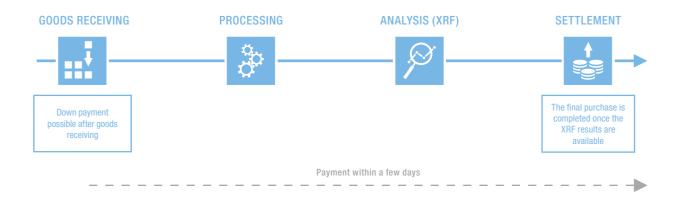
Advantages of wet-chemical analysis

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.



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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

Germany Hensel Recycling GmbH Mühlweg 10 63743 Aschaffenburg

Phone +49 6028 12 09 0 E-Mail info@hensel-recycling.com

France
Hensel Recycling France SARL
10 rue Plucharde
21110 Bretenière

Phone +33 380 66 8445 E-Mail france@hensel-recycling.com

United States of America Hensel Recycling North America, Inc. 1003 Industrial Drive West Berlin, NJ 08091

Phone +1 856 753 7614 E-Mail usa@hensel-recycling.com Malaysia
Hensel Recycling Malaysia Sdn. Bhd.
264, Jalan KIP 4
Kaw Perindustrian Kepong
52200 Kuala Lumpur
Phone +60 3 626 322 78

E-Mail malaysia@hensel-recycling.com

United Kingdom

12 Maydwell Avenue Slinfold, West Sussex RH13 0SH Phone +44 1403 792 500 E-Mail uk@hensel-recycling.com

Hensel Recycling (UK) Ltd.

Australia Hensel Recycling Australia Pty. Ltd. 17 Industry Boulevard Carrum Downs, Victoria 3201

Phone +61 3 95545900 E-Mail australia@hensel-recycling.com Austria Hensel Recycling Austria GmbH Teichweg 9 5400 Hallein

Phone +43 6245 204 60 E-Mail austria@hensel-recycling.com

Korea Hensel Recycling Korea Ltd. 599-6, Baekbong-ri, Baegam-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do

Phone +82 31 323 1005 E-Mail korea@hensel-recycling.com

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