

Exhaust-gas aftertreatment systems for short- and long-haul traffic

Put your trust in the SMF® when retrofitting your vehicles and benefit from our many years of experience in the business. Throughout Europe, thousands of trucks have already been successfully retrofitted with HJS particulate filters. All systems meet the statutory requirements and are certified in accordance with the valid licensing regulations, such as Annex XXVII in Germany and VERT in Switzerland, and are approved in Denmark, Italy, the Netherlands, the UK and the USA.

Example: payback calculation for EURO II / III trucks

HJS sintered metal filter (RRP excl. VAT) e.g.	4.450 €
+ Installation costs	400 €
- De-minimis aid (max.)	2.500 €
- Toll savings	
Euro II truck: after approx. 28.000 km (8.4 ct per km)	
or	2.350 €
Euro III truck: after approx. 112.000 km (2.1 ct per km)	

INVESTMENT AMORTISED 0 €

+ Increased re-sale value

+ Unrestricted access to low emission zones

If de-minimis aid is not considered, the investment is worthwhile after about 58.000 km with a Euro II truck.



SMF® system for Commercial Vehicles



INFO-HOTLINE
+49 2373 987-222
sales@hjs.com

29162@p12.com

Environment protection pays for itself



Diesel Particulate Filter for Trucks



Last update: 16.07.2013

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HJS Emission Technology GmbH & Co. KG
Dieselweg 12 · D-58706 Menden/Germany
Phone: +49 2373 987-0 · Telefax: +49 2373 987-199
E-mail: hjs@hjs.com · Internet: www.hjs.com

HJS
Emission Technology

26.03.5134

www.hjs.com

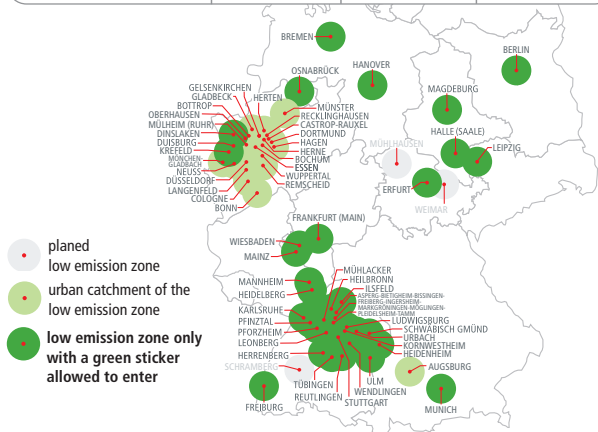
HJS
Emission Technology



Low emission zones in Germany

More and more local authorities are taking action and setting up low emission zones to enable them to comply with the EU clean air directive 2008/50/EC. More than 60 towns and cities have already set up a low emission zone (LEZ). Since 1 January 2013, more than 40 of these only allow vehicles with a green LEZ sticker indicating a lowemissions classification to enter their inner-city area. Drivers who infringe these regulations risk a € 40 fine and one penalty point on their licence. Moreover, since 1 April 2013, authorities now also have the right to check up on parking vehicles. When fitted with diesel particulate filter systems from HJS, Vehicles meet the German requirements and as such are granted unrestricted access to all LEZs inside Germany.

Emission class and sticker before retrofitting	EURO I None	EURO II	EURO III
	Retrofitting with HJS 100% particulate filter		
Emission class and sticker after retrofitting	EURO I	EURO II	EURO III



Low emission zones in Europe

Likewise, many European countries now have LEZs from which vehicles not fitted with a particulate filter are excluded. You can find out more information about Europe's LEZs and the restrictions on access to them at <http://www.lowemissionzones.eu/>



The right system for your requirements

The centrepiece of all HJS exhaust treatment systems is the sintered metal filter (SMF®). This closed filter for trucks reduces the emissions of soot particles, including ultra-fine particulate matter, by almost 100 percent.



SMF® – the centrepiece of all HJS systems

- ✓ **Minimal downtime**
Quick and simple installation – replaces OE silencers
- ✓ **Extremely low-maintenance**
3 to 4 times more mileage than with a ceramic filter
- ✓ **Low servicing costs**
Filter cleaning simple and quick to carry out on you own premises
- ✓ **Active protection of health and the environment**
Complete reduction of soot particle emissions (PM), incl. ultra-fine particles

Comparison of maintenance characteristics

HJS sintered metal filter (SMF®)

1st service after approx. 200.000 km

Ceramic filter



(poss. filter module replacement)

Maintenance intervals depending on the driving pattern and oil consumption of the engine. Applies to HJS systems with uncoated filters (SMF®) and vehicles that are used in long-distance transport. (In adherence to the technical HJS specifications)



Save on toll charges in Germany

Since 1st August 2012, Germany's truck toll system has been extended to cover numerous four-lane national highways right across the country, in addition to the entire motorway network. Retrofitting Euro II and Euro III vehicles with HJS diesel particulate filter systems is rewarded in Germany with lower motorway toll charges. And truck operators from outside Germany can also save by fitting a particulate filter.

Work it out for yourself ...

Emission class Toll category	EURO III C	EURO II D	
Retrofitting with	HJS 100 % particulate filter		
Toll category after retrofitting	B	C	
	Saving per km	2.1 Ct	8.4 Ct
	After 100.000 km	2.100 €	8.400 €
	After 150.000 km	3.150 €	12.600 €

State subsidies to encourage retrofitting*

German haulage companies that modernise their fleets and fit diesel particulate filters to their trucks can apply for state subsidies known as 'de-minimis' aid.



- ✓ **Max. € 2.500 per vehicle upwards of 12 t** for retrofit measures on vehicles
- ✓ **€ 25.500 per annum per company** absolute maximum subsidy

More information at www.bag.bund.de.

Many other countries also offer financial incentives to retrofit diesel particulate filters. Please contact your local HJS partner for information.

* May 2013