



We care for air.



WE CARE FOR AIR.

HUSS Group stands for technical driven and innovative solutions in exhaust aftertreatment. The focus is on both retrofit- and firstfit of heavy-duty and off-road vehicles. Our common goal is to be one of the international leading companies of the branch.

CleanDieselCeramics, a producer of LPS-SiC ceramic for particulate traps and Metpela, the specialist for noise reduction and metalworking, are the production facilities within the HUSS Group.

Retrofit solutions are represented by HUSS in Germany, Switzerland and the USA as own entities. HUSS Technologies is the ideal partner of engine and vehicle manufacturers for customized system development and integration.

The entirety of all our efforts is summarized in our slogan: **HUSS – We care for air.**



We care for air.



HUSS LLC
Sales and service
North America



HUSS Umwelttechnik GmbH
Retrofit sales for Europe
and other export markets
After sales service
HUSS Technologies GmbH
OEM Sales, System
Development &
Integration



HUSS Umwelttechnik AG
Sales and service for
Switzerland, France
and Italy



CleanDieselCeramics GmbH
Development and
production of LPS-SiC
diesel particulate
filters



Metpela Oy
Development and
production of mufflers,
Canning & Complete
System Management

Extraordinary growth and continuous technical innovations are some of the remarkable characteristics of the **HUSS Group**. Being **internationally represented**, with own entities in Europe and the USA, testifies that customer needs and the scope of business activities complement each other gainfully.

“ HUSS A SUCCESS STORY ”

Innovative and technical sophisticated solutions are honoured by the customers and are the driving element for steady improvement and further development. **25 years of experience** are incorporated in HUSS products and stand for robust, long lifetime and technical advanced solutions.

Technological leading manufacturer

Innovative exhaust aftertreatment

More than 25 years of market experience

Specialised in off-road and heavy-duty applications

International presence and customer orientation

Manufacturer of LPS-SiC ceramic

Manufacturer of mufflers

Competent development partner

THE GROUP



HUSS GROUP

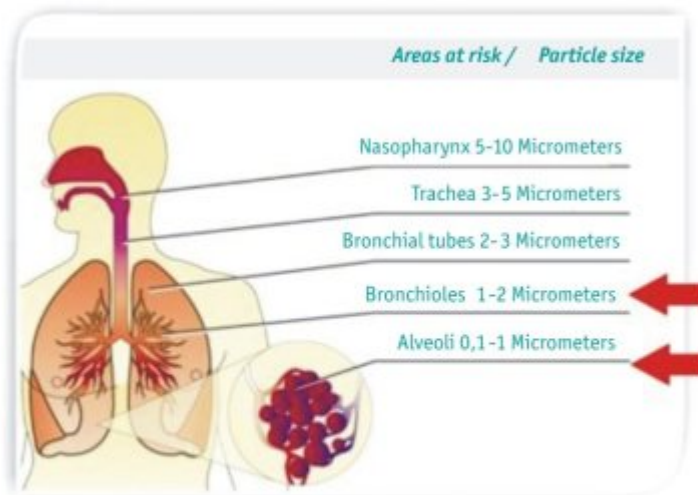
We care for air.

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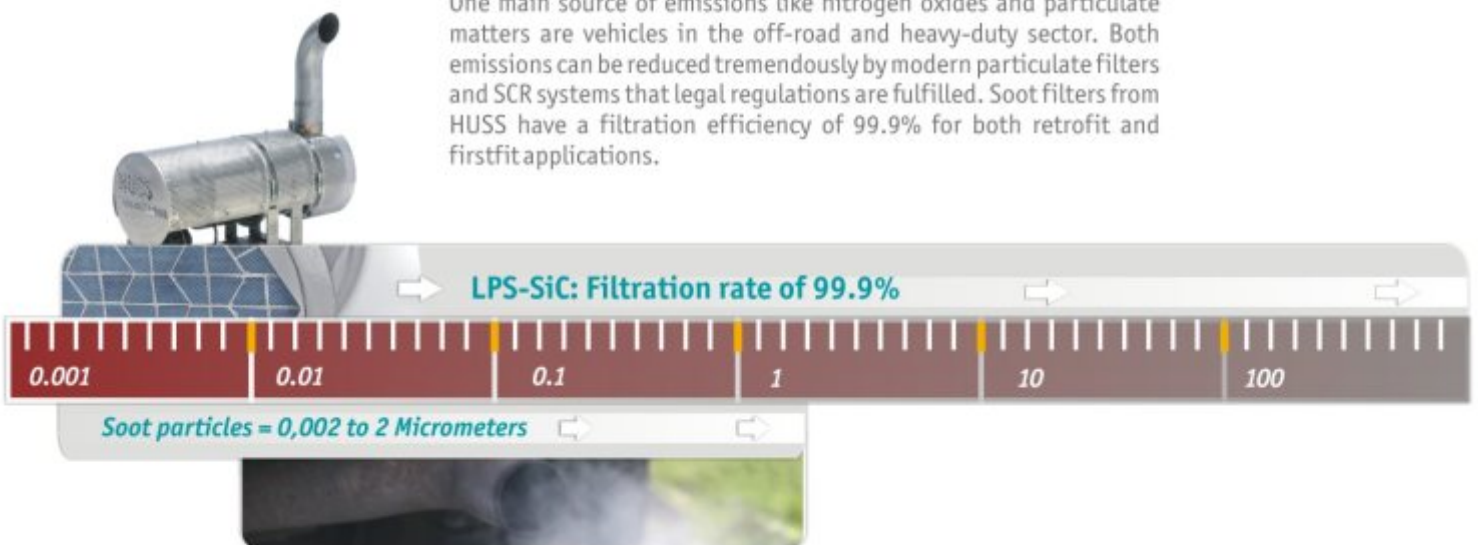
Especially in heavy-duty and off-road applications diesel engines have proven their performance and therefore will be, as today, a dominant concept of drive technology in the future too. Beside the known emissions, fine soot particles were generated during the combustion process.

“ IT IS ABOUT OUR HEALTH ”

Due to the reason that they are harmful for the health of human beings, their emissions are controlled and reduced. By inhaling these some nanometres small soot particles they get stuck deep in the alveoli of the lungs. Today they are considered indisputable as initiator of cancer and allergies.



One main source of emissions like nitrogen oxides and particulate matters are vehicles in the off-road and heavy-duty sector. Both emissions can be reduced tremendously by modern particulate filters and SCR systems that legal regulations are fulfilled. Soot filters from HUSS have a filtration efficiency of 99.9% for both retrofit and firstfit applications.



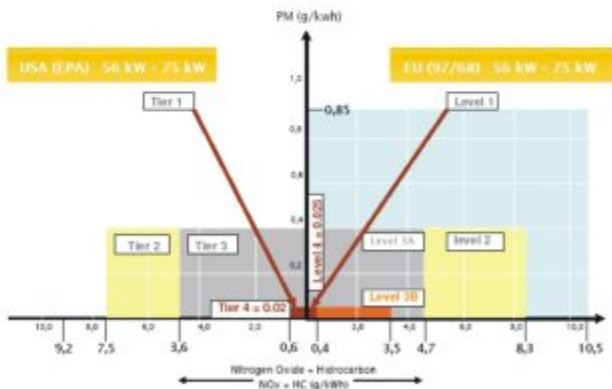


EMISSIONS

The air we are breathing is one of our most valuable resources and a basic element for the existence of human beings. The growing numbers of population and the desire of being mobile, as well as the formation of huge urban areas, creating new challenges.

// 90% LESS EMISSIONS IS THE FUTURE //

This duality between prevention of air pollution and rising demands for mobility leads worldwide to regulations reducing emissions.



Remarkable retrofit programs have been started in Europe, the USA and Asia. New emission regulations exist already today and become valid in the near future. Only engines with emission levels, regarding nitro oxides and particulate matters, below 90% of the current values will be able to comply with them.

- Diesel particles are harmful**
- HUSS filters even the smallest particles up to 99.9%**
- Prevention of air pollution without limitations of mobility**
- All over the world retrofit programs have been started**
- Future laws will reduce emission levels by another 90%**
- Modern exhaust aftertreatment systems of HUSS will meet the challenge**

EMISSIONS



We care for air.



HUSS RETROFIT

99.9% soot collection rate

Long lifetime and robust systems

All active and passive regeneration techniques

Competent sales assistance

Company own service crew

Systems meet international standards

Well established quality management

HUSS RETROFIT SOLUTIONS

99.9% soot collection rate is the demanding benchmark for the competition in the retrofit business. In regard to emissions, even used engines can comply with the latest state of the art, by using one of the six different active and passive regeneration techniques. Customers trust on the excellence of HUSS employees in sales and service **from the first contact to the installation and maintenance of the systems.**

// EXHAUST AFTERTREATMENT SOLUTIONS DIRECTLY FROM MANUFACTURER //

Emission reduction is an international task and HUSS is ready to meet this challenge. In various applications all over the world the products have proven their reliability impressively. **HUSS systems are approved by international testing institutes** like VERT (Switzerland), CARB (USA) and TÜV (Germany) in order to name only some of them. The quality management of the company is accredited by DIN-ISO 9001: 2000 standard.





**INDEPENDENT FROM
EXHAUST TEMPERATURE**



MK-SYSTEM

MK-SYSTEM

Diesel Particulate Filter with Diesel Burner Technology



ME-SYSTEM

ME-SYSTEM

Diesel Particulate Filter with Electrical Regeneration



W-SYSTEM

W-SYSTEM

Diesel Particulate Filter with Exchangeable Cartridges

FOR EVERY APPLICATION A SOLUTION THAT FITS

All HUSS products are modular designed, with a casing made of stainless steel and a high-tech ceramic filter (LPS Silicon Carbide) with a filtration efficiency of 99.9%.



**REGENERATION STARTS
AT LOW TEMPERATURES**

200°C



MD-SYSTEM

MD-SYSTEM

Diesel Particulate Filter with Diesel Post-Injection

250°C



MA-SYSTEM

MA-SYSTEM

Diesel Particulate Filter with Additive Regeneration

270°C



MC-SYSTEM

MC-SYSTEM

Diesel Particulate Filter with Catalytic Coating



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HUSS TECHNOLOGIES

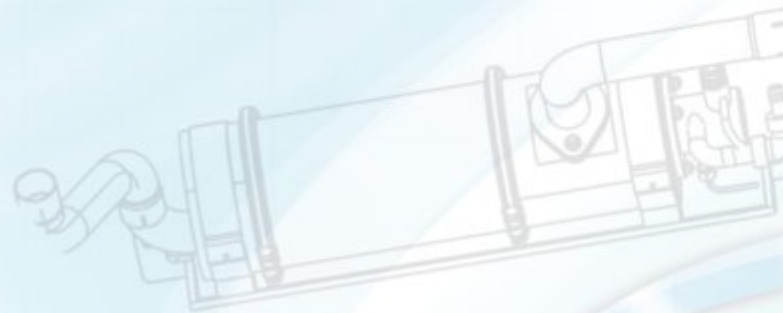
Worldwide emission regulations are going to be tightened dramatically. **Without an exhaust aftertreatment it is unrealistic to fulfil such low emission levels.** This is the reason why the industry of exhaust aftertreatment is recognised by engine and vehicle manufacturers as an important link in the development.

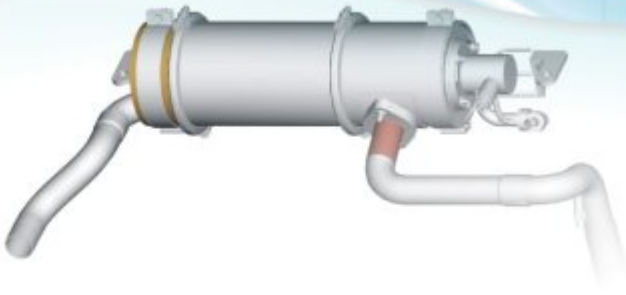
“ FROM THE IDEA TO SERIAL PRODUCTION ”

The HUSS Group offers in addition to substantial experience in retrofit, particularly technical **know-how in the fields of ceramic filter media, canning, noise reduction and programming of control units.** The spectrum of activities is completed by own engine test rig capabilities and system integration assistance. Finally, all this enables HUSS to act as a sought after development partner for customized emission reduction projects of tomorrow and the future.



We care for air.





More than 25 years of market experience in particle filtration and more than 40 years of experience in noise reduction are incorporated in the development of emission reduction systems and technologies.

“ MARKET EXPERIENCE AND BRANCH SPECIALISATION ”

Customized solutions made by HUSS benefit from the experience of the branch specialist and lead to technical based development results.

Manufacturer of LPS-SiC ceramic

Manufacturer of mufflers

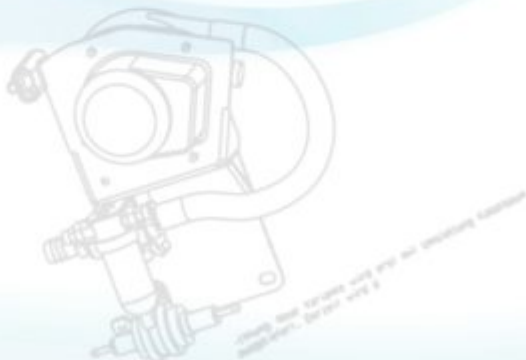
Competence in metalworking

Canning and pipe bending technology

Up to date CAD engineering

Own engine test bench capabilities

Experienced development partner



HUSS Technologies GmbH

0 800 / 0 65 65 65

**Nordostpark 74
D-90411 Nürnberg**

Market experience since 1964

Highest quality and competence in mufflers

Quality management approved by DIN-ISO 9001:2000 and TS 16949

Canning technology for particulate traps and catalysts

3D pipe bending technology for big dimensions

Specialised in off-road and heavy-duty applications

Customized silencer development



METPELA

Highest quality and competence in silencer design and production since 1964 is what Metpela stands for in the HUSS Group. Today, the company is dedicated to noise reduction of heavy-duty and off-road vehicles. All production processes are focused and optimised on these sectors.

// NOISE REDUCTION AT THE HIGHEST STAGE //

Services in the business field of **canning of catalysts and particulate traps are, as well as the design and production of customized exhaust pipes**, integrated elements of the companies' portfolio. From prototyping to production, an enormous flexibility and short development periods are the major reasons for Metpela to be a valuable partner.

METPELA
EXHAUST SYSTEMS

Metpela Oy

+ 358 2 857 31

Garpintie 270
Finland-23800 Laitila



CLEANDIESEL CERAMICS

The core element of a particulate filter is the filter media itself. **Vehicles in heavy-duty and off-road applications work under severe conditions.** Therefore a particulate filter has to be as sustainable as the vehicles are: heat, corrosion, shocks and soot should not be able to cause damages. Under these premises the **LPS-SiC high-tech ceramic of CleanDieselCeramics was invented.**



“ LPS-SiC HIGH-TECH CERAMIC FOR OFF-ROAD AND HEAVY-DUTY APPLICATIONS ”

This patent proofed material combines the excellent **filtration efficiency of 99.9%** with all the other outstanding characteristics of a ceramic. As a result this leads to an especially appropriate material for diesel particulate filters in demanding applications. **CleanDieselCeramics offers particulate traps in various shapes and sizes.** Due to the system know-how in the HUSS Group, the usage of the filter material is widely spread. The continuous further development of both material and processes is secured by a direct connection between market experience and production efficiency.



Manufacturer of LPS-SiC ceramic for particulate filters

Patent proofed material and novel design

Wall-flow filtration with 200 cpsi and 99.9% filtration efficiency

Specialised in heavy-duty and off-road demands

Heat resistant, corrosion free, high mechanical durability

Various shape and size possibilities

Development of customized solutions

CLEANDIESEL CERAMICS

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The background is a solid teal color with a subtle grid pattern. There are several abstract, curved, light-colored lines that sweep across the page, creating a sense of motion and depth. The lines are layered, with some appearing more prominent than others. The overall aesthetic is clean, modern, and professional.