**Press Release**

**Innovative products and competence in the field of integrated system solutions for construction-machinery and commercial-vehicle power trains**

*At this year's BAUMA, HJS will be exhibiting its innovative products and competence in the field of integrated system solutions for construction-machinery and commercial-vehicle power trains – all under its slogan* ***You create performance – We create clean air****.*

**Innovation from the outset – technologies for OEMs**

Nitrogen oxides, particulates and minimal CO2 emissions – HJS has the answers to future emissions regulations. As a provider of emissions treatment systems, we possess product development expertise in diesel, petrol and gas engines, plus extensive applications expertise in on- and off-road applications.

**Come and see for yourself our product innovations at the BAUMA trade fair:**

* HJS SCRT-TM® – an integrated exhaust system with two-stage active thermal management
* HJS Swirl Cap Compact Mixing Module – modular AdBlue®-emissions mixture preparation unit as a complement to the HJS system kit
* HJS SMF®-AR – a sintered metal filter with active regeneration

**Minimal emissions – sustainability for a lifetime**

HJS systems also bring vehicles and machines already out there in the field into line with the latest emissions standards. Not only does HJS develop and manufacture innovative systems for the original equipment market, but we also develop and market complete emissions treatment systems for retrofitting to existing vehicles and machinery powered by a combustion engine. This includes all types of vehicle, from vans to commercial vehicles and public transport vehicles, as well as construction machinery.

Our products are based on a wealth of experience gained over many years of collaborating with all of Europe's leading engine and vehicle manufacturers. The modularity of our products enables these systems to be easily adapted to any vehicle or machine with little time and effort. All products meet the very highest quality standards. Even under the most critical operating conditions, our systems operate reliably and reduce emission levels under all circumstances and long-term. The vehicle or machine owner benefits from a robust, certified solution sourced from a single supplier. From project planning to installation and after-sales support, HJS is a partner our customers can always rely on 100%.

**Putting the spotlight on our highlights**

**HJS SCRT-TM® – an integrated exhaust system with two-stage active thermal management**

HJS's AdBlue® system has been designed in such a way that it can also be integrated into extremely compact installation spaces. Particulate matter (PM) is reduced to the very threshold of detectability and a drastic reduction in nitrogen oxides to Stage V or EURO VI level can be achieved in the smallest of installation spaces. The integrated, active thermal management system facilitates very high nitrogen oxide reduction rates and reliable regeneration of the particulate filter even at extremely low exhaust temperatures.

Over a period of several years, HJS has developed the technology modules that go to make up this complex system architecture:

* Extremely compact mixing section, which simultaneously offers minimized exhaust backpressure and optimum, uniform distribution of AdBlue®
* State-of-the-art catalyst technology with high efficiency levels
* Electrically heated catalytic converter, incl. HJS control and power electronics
* Exhaust backpressure valve as an integral part of the thermal management system
* HJS Aftertreatment Control Unit (ACU) with full software functionality for controlling all emissions aftertreatment components; AdBlue® dosing logic, DPF loading and regeneration control, comprehensive Stage V and Tier 4 Final OBD functionality; control of all dosing components available on the market

"Emissions aftertreatment is seen as a risk factor by many machinery owners. They are worried about residues in the SCR and also about the particulate filter clogging up. We have put a great deal of effort into development and testing to ensure that these problems do not occur in any of our systems", says HJS's CTO Dr.-Ing. Christoph Menne. "With the aid of smart concepts, complex 3D CFD simulations, hot-gas and engine test-bench testing, we ensure that our systems are extremely robust and function under all conditions. True to our slogan *"You create performance – We create clean air"*. It's something my team and I are very proud of."

**HJS Swirl Cap Compact Mixing Module – modular AdBlue®-emissions mixture preparation unit complements the HJS system kit**

The latest EU Stage V emissions standard, which came into force on 1 January 2019, aims to cut pollutant emissions in the non-road segment by up to 98 per cent. For many engine manufacturers, it's a huge challenge to find space in some mobile machines to install the necessary emissions treatment components.

The new HJS Swirl Cap Mixer makes it possible to fit a highly efficient AdBlue® mixture preparation system with low exhaust-gas backpressures into the tightest of spaces. The modular system can be adapted to a wide variety of engine sizes and installation space requirements in machines.

For the power output range from 56 to 560 kW, the development team at HJS has come up with a variable arrangement. Whether horizontal or vertical, it's always possible to find a flexible installation position close to the engine. Thanks to the super-short mixing section in which the AdBlue® and exhaust gases are combined, the system is very compact. The high temperatures that ensue from the immediate proximity to the engine result in a high degree of efficiency.

The diameter and length of the Swirl Cap Mixer are scalable, making it possible to integrate it into a wide variety of installation spaces without any problem. Even with this short mixing section, vaporization is almost 100% perfect. Maximized NOx conversion rates in excess of 97 per cent and the minimization of critical deposits are the result.

From 8 to 14 April 2019, the HJS Team will be ready and waiting to answer questions and provide information on any aspect of emissions treatment systems. You can find us at bauma 2019 in Hall A5 on Stand 203.

**Press contact:**

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**About HJS:**

HJS Emission Technology GmbH & Co. KG is a medium-sized company founded in 1976 and based in Menden in central Germany. HJS has many years of experience and expertise in the field of exhaust-gas aftertreatment. More than 450 employees are engaged in the development, production and marketing of modular systems for reducing pollutant emissions. These innovative environmental protection technologies can be used either as original equipment or for retrofitting in passenger cars, commercial vehicles as well as in a wide range of non-road mobile machinery and stationary applications. In addition to systems for spark-ignition engines, HJS also offers solutions for diesel and gas-powered engines – especially solutions for reducing the emissions of soot particles (particulate matter, PM) and nitrogen oxides (NOx). With its extensive portfolio of patents for DPF® (diesel particulate filter) and SCRT® (Selective Catalytic Reduction Technology) systems, and cooperation with Germany's TÜV certification agency as well, HJS sets benchmarks internationally.