



Automotive Region Stuttgart

29 September 2020

TÜV SÜD opens largest independent testing laboratory for emission testing in Europe

Munich/Heimsheim. After two years of construction and total investments of over 20 million euros, TÜV SÜD is opening its new Centre for Mobility and Powertrains at Heimsheim near Stuttgart. The new emissions testing laboratory is the largest independent laboratory of its kind in Europe. The company is thus not only doubling its testing capacity for the mobility of tomorrow, but also carving out its status as a strong pillar for the entire mobility sector in the Greater Stuttgart area. The new test facility offers all the types of emissions tests required for type approval on all international markets. And with a view to future mobility, this also includes the emissions of hybrid-electric and electric vehicles. By opening this new testing facility, TÜV SÜD is taking the lead among independent Technical Services in this sector. The world of politics is also honouring this high level of commitment. Winfried Hermann, Minister of Transport of the German state of Baden-Wuerttemberg, will also attend the opening on 29 September.



“Investments of 20 million euros, 35 new jobs, six test rigs and 25,000 emissions tests per year – TÜV SÜD’s new Centre for Mobility and Powertrains is the largest independent testing laboratory of this kind in Europe and the centrepiece of our network of emissions testing laboratories,

through which we contribute to shaping the future of mobility. Offering capacity, know-how and internationality, our new testing laboratory underlines our objective to deliver premium quality and a highly sought-after product portfolio”, says Patrick Fruth, CEO of the Mobility Division at TÜV SÜD. “As an industry partner, we provide support to the national and international automotive industry plus dedicated assistance with the transition from conventional drive systems to hybrid-electric and electric vehicles”, adds Fruth. By doing so, TÜV SÜD is responding to the increasingly strict requirements and

legal regulations in this sector – and more. The examples of RDE and Euro 7 demonstrate the quantum leap being made by the company in these areas, sending a strong signal to the Stuttgart and Baden-Wuerttemberg automotive region. Fruth notes, “Here, in the automotive cluster in Baden-Wuerttemberg with over 450,000 employees, we will test electric and hybrid-electric vehicles as well as combustion engine vehicles for all relevant access markets, such as the USA, China and South Korea as well as Germany. The TÜV SÜD Centre for Mobility and Powertrains will be a pillar for the entire region. In these times of uncertainty, we are creating jobs and opening up perspectives for the future.

Various powertrain technologies

Diesel, petrol, hybrid-electric (HEV) or electric vehicle (EV), the new testing facility enables all these vehicles to be compared in terms of their emissions and environmental compatibility. The testing portfolio covers scenarios for type approvals according to international standards and regulations and conformity of production (CoP) testing as well as tests within the scope of vehicle development.

Automotive manufacturers gain a central point of contact for the approval of their vehicles in all relevant access markets.

In testing various powertrain and fuel technologies, the third-party experts use dynamometers to test energy carriers of different types: tank (petrol, diesel, gas), grid energy and regenerative energy (recuperation). Using a CO₂ equivalent, the automotive experts can then compare the performance of the cars. Taking HEV as an example, here the vehicle’s electricity consumption is converted to a CO₂ equivalent and included in the result. CO₂ emissions, in turn, increase proportionately to fuel consumption. Taking this as the basis for their calculations, the experts add up fuel consumption.

International approval regulations – central point of contact

With 490 tonnes of structural steel, a floor space of 23,000 square metres and 100 pre-conditioning bays across four levels, TÜV SÜD is also breaking new ground in technology and architecture, including a separate test level for commercial vehicles and screened-off areas for prototype testing. On top of the above, the new centre is linked to the existing laboratory facilities at the site. In future, TÜV SÜD’s network of exhaust emissions laboratories – with locations in Pfungstadt at our subsidiary TÜV Hessen and in Roztoky in the Czech Republic – will also be coordinated from Heimsheim. Fruth notes, “Our network enables us to offer international OEMs a point of contact for the approval of their vehicles in all relevant access markets around the globe.”

Caption: A new pillar for the automotive cluster in Baden-Wuerttemberg. TÜV SÜD’s Centre for Mobility and Powertrains in Heimsheim.

Note for editorial staff: The press release and high-resolution photo can be found on the Internet at www.tuvsud.com/en-press-maz.

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