

PRESS RELEASE

Las Vegas, March 10, 2020

DEUTZ to present all-electric 360 volt drive system at CONEXPO 2020 in Las Vegas

- Open technology for sustainable drive systems in the off-highway sector
- All-electric 360 volt drive for JLG telehandler
- TCG 7.8 H2 hydrogen engine as a cost-efficient 'zero-emission' technology

DEUTZ will be presenting its latest developments in the field of sustainable off-highway drive systems at CONEXPO in Las Vegas from March 10 to 14, 2020. Under the banner of 'REVOLUTIONIZING POWER', the leading international engine specialist combines diesel, gas, hybrid, electric and hydrogen technologies to create the best possible solution for every customer. The solutions are configured using the DEUTZ Advanced Configurator, a modular product design toolbox.

Among the customer examples presented by DEUTZ will be the all-electric JLG telescopic handler concept G5-18A, which was developed in collaboration with JLG. The compact 360 volt drive system uses a split drive comprising two 40 kW electric motors – one for driving and one for the hydraulics in the telescopic arm. As is typical for electric engines, the system delivers instant torque, making the machine even more dynamic. The battery is from the E-DEUTZ modular toolbox and offers 42 kWh of capacity. The 6.6 kW charging system can restore the battery charge to 80 percent within four hours.

DEUTZ will also be presenting an electric hybrid drive system at CONEXPO that was designed specifically for use in aerial working platforms for low-load applications. The new DEUTZ D 1.2 hybrid engine combines a highly compact three-cylinder diesel engine with a

capacity of 1.2 liters and a 48 volt electric motor. A battery system developed in collaboration with Futavis, which is now ready for pilot production, will be another highlight at the exhibition. Hundreds of these systems have already been built. DEUTZ acquired German battery specialist Futavis in 2019 in order to strengthen its inhouse expertise in the key area of battery technology. The market-ready system underlines DEUTZ's strategic focus on electrifying its product range and on developing and industrializing its engineering expertise, high-voltage batteries, and electric drive trains.

Dr. Frank Hiller, Chairman of the Board of Management of DEUTZ AG, explains: "When tackling the challenge of making drive solutions sustainable for the future, we always keep our minds open to all technologies. Our approach builds on intelligent combinations of electric drives and internal combustion engines that offer the potential to be operated in a carbon-neutral manner in the future using sustainable fuels." One example is the TCG 7.8 H2 hydrogen motor offered by DEUTZ – a cost-efficient alternative to other 'zero-emission' technologies such as fuel cells.

In the service business, DEUTZ will be presenting its innovative Advanced Repair approach, which encompasses various digital service concepts for ensuring that machinery and equipment can be deployed safely, efficiently, and conveniently. To enable maintenance to be carried out even more efficiently, DEUTZ offers solutions such as an augmented reality app for tablets that assists mechanics directly while they are carrying out the required work on an engine. Visitors to the trade fair can try out the app for themselves at the DEUTZ stand.

Michael Wellenzohn, member of the DEUTZ AG Board of Management responsible for Sales, Service and Marketing says: "From the development of the drive system through to all stages of the product lifecycle, we support our customers every step of the way. The DEUTZ Advanced Configurator enables us to design a drive system that is tailored to customer preferences, for example regarding performance and emissions, and DEUTZ Advanced Repair offers cutting-edge digital service processes for our end users."

DEUTZ at CONEXPO 2020

Stand: South Hall: S85231

Press conference: March 11, 2020, 11 a.m., DEUTZ stand S85231

Further information on the trade fair is available at conexpo.deutz.com



Caption: The DEUTZ Advanced Configurator is a modular product design toolbox that enables DEUTZ to design tailored drive systems using diesel, gas, hybrid, electric and hydrogen technologies.

Picture source: DEUTZ



Caption: The telescopic handler solution G5-18A, which was jointly developed by DEUTZ and JLG, uses a compact 360 volt drive system with two 40 kW electric motors – one for driving and one for the hydraulics in the telescopic arm.

Picture source: DEUTZ

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About DEUTZ AG

DEUTZ AG, a publicly traded company headquartered in Cologne, Germany, is one of the world's leading manufacturers of innovative drive systems. Its core competencies are the development, production, distribution, and servicing of diesel, gas, and electric drive systems for professional applications. It offers a broad range of engines delivering up to 620 kW that are used in construction equipment, agricultural machinery, material handling equipment, stationary equipment, commercial vehicles, rail vehicles, and other applications. DEUTZ has around 4,900 employees worldwide and over 800 sales and service partners in more than 130 countries. According to provisional figures, it generated revenue of €1,840.8 million in 2019.

Further information is available at www.deutz.com.