

DAF Trucks at IAA 2018 in Hanover:

## **Innovative Electric Trucks Demonstrate the Road to the Future**

- State-of-the-art Electric & Hybrid Innovation Trucks
  - DAF LF Battery Electric Innovation Truck
    - 250 kW/340 hp electric motor
    - Modular lithium-ion battery packs up to 222 kWh
    - Range of up to 220 kilometres
    - Featuring Cummins Technology
  - DAF CF Battery Electric Innovation Truck
    - 240 kW/325 hp electric motor
    - 170 kWh lithium-ion battery pack
    - Range of 100 kilometres
    - Featuring VDL E-Power Technology
  - DAF CF Hybrid Electric Innovation Truck
    - PACCAR MX-11 diesel engine
    - 130 kW/177 hp ZF electric motor
    - 85 kWh lithium-ion battery pack
    - Electric range from 30 to 50 kilometres
  - Customer field tests starting in 2018 and 2019
- 90 Years of DAF Excellence
  - Record 16.5% Market Share in Europe
  - Market Leader in Tractors
  - Market leader in The Netherlands, Hungary, United Kingdom, Poland, Belgium, Romania, the Czech Republic and Bulgaria
  - Largest import brand in Germany

***'Proud of our heritage, leading today, ready for the future'* is DAF's overall theme at IAA 2018 - which is being held in Hanover from 20 to 27 September. DAF Trucks is exhibiting its full, industry-leading product and services range, the result of 90 years of heritage in developing innovative transport solutions. DAF is the European market leader in tractors and is number 1 in fuel efficiency, uptime, reliability and driver comfort. DAF's powertrain leadership is demonstrated by the advanced LF Electric, CF Electric and CF Hybrid Innovation trucks that are on display at Europe's largest truck exhibition and are a key part of DAF's vision on future transport.**

The DAF stand is located in Hall 17 of the exhibition complex. Occupying an area of 2,500 m<sup>2</sup>, it showcases the complete on highway and vocational product range that set the standard in quality, low operating cost and vehicle performance. The DAF trucks on display include the LF for distribution transport, the versatile CF designed for a wide variety of applications and the flagship XF for heavy and long distance transport. The CF and XF were voted 'International Truck of the Year 2018' thanks to a comprehensive package of technical innovations, resulting in a 7% fuel efficiency enhancement that sets the benchmark in the industry. The DAF LF was awarded 'Fleet Truck of the Year 2018' in the United Kingdom.

To highlight the importance that DAF and its 1,100 sales and service dealers attach to a full range of services to support their class leading products, PACCAR Financial, PacLease, PACCAR Parts, DAF MultiSupport Repair and Maintenance and the DAF Connect fleet management system are prominently featured in the DAF IAA stand.

### **On the Road to Zero Emission Transport**

To underline DAF's aim to further strengthen its industry leading position in fuel efficiency and low emissions, DAF is exhibiting a full range of Innovation Trucks at the IAA. These include the LF Electric and CF Electric for medium and heavy duty city distribution, as well as the CF Hybrid for mid-range distribution with zero emissions in urban areas and the best overall efficiency. These innovative solutions have been developed to champion the needs for improving local air quality in cities, as well as reducing CO<sub>2</sub> emissions.

**DAF LF Electric Innovation Truck**

The DAF LF Electric is a 19 tonne fully electric truck for zero emissions city distribution. The truck features Cummins technology with a 195 kW/266 hp electric motor (peak: 250 kW/340 hp). The motor is powered by a battery pack of up to 222 kWh, providing a range of up to 220 kilometres when the truck is fully laden. As the battery pack is modular, capacity can be scaled to the range required by customers. For city distribution the 220 kilometre range of the DAF LF Electric is ideal.

**DAF CF Electric Innovation Truck**

The DAF CF Electric is the ideal zero emission solution for urban distribution requiring higher payloads and volumes. This includes applications where single or double axle semi-trailers are the standard, such as in supermarket delivery.

The CF Electric is a 4x2 tractor unit for up to 37 tonne GCW applications. The truck is based on DAF's versatile CF series – 'International Truck of the Year 2018' – and uses VDL's advanced E-Power Technology for fully electric operation. The centre of the intelligent powertrain is the 210 kW/286 hp (peak: 240 kW/326 hp) electric motor, which gets its energy from the 170 kWh lithium-ion battery pack.

The CF Electric has a range of approximately 100 kilometres which is appropriate for high volume city distribution applications. Quick charging of the batteries can be performed in 30 minutes or a full charge can be accomplished in as little as 1.5 hours. Freight loading and unloading time can be used to charge the battery pack.

**DAF CF Hybrid Innovation Truck**

The DAF CF Hybrid has been developed for driving electrically with zero emissions in urban areas, while offering a much longer range to operate beyond those urban areas, thanks to the latest, ultra-clean diesel technology. The combination of electric and diesel power ensures the highest logistical efficiency.

The sophisticated DAF CF Hybrid features the very efficient 10.8 litre PACCAR MX-11 engine (330 kW/450 hp), a ZF electric motor (75 kW/100 hp / peak: 130 kW/175 hp), in combination with a dedicated ZF TraXon gearbox for hybrid drivelines.

The electric motor is powered by an 85 kWh battery pack, which allows for a full electric, zero emission range of 30 to 50 kilometres, depending on the Gross Combination Weight. The batteries can be charged by the diesel engine during on-highway operations, and by using a DC charger at a charging location. The vehicle is designed with a fast charge capability that takes 30 minutes for a full charge and only 20 minutes for a charge of up to 80%.

Outside urban areas, the CF Hybrid is powered by the clean and efficient PACCAR MX-11 diesel engine, where the hybrid technology provides additional fuel savings thanks to the smart energy management. Regenerative energy is captured during braking and when using speed-related controls like Down Hill Speed Control and Predictive Cruise Control. This energy can be used by the electric motor to operate in conjunction with the diesel engine to further reduce fuel consumption.

The battery pack of the hybrid system powers the electric driveline, the electric air compressor, as well as the optional intelligent e-PTO. The e-PTO can be used to drive refrigeration equipment on semi-trailers for temperature controlled transportation further enhancing low noise operation.

### **Customer Focused Strategy**

“The overriding priority for any development is to provide value to our customers”, stated Ron Borsboom, member of the Board of Management, responsible for product development. “Our approach has always been and will always be to thoroughly validate our new developments before launch. That customer focused strategy continues with electric and hybrid trucks. Zero emissions and low noise levels may be demanded in the future as cities announce their intentions to create zero emission zones which could drive a need for our customers to have a wide variety of solutions to meet their needs.”

The first CF Electric trucks will be released into field test operation with leading customers this year and similar field tests are planned to start with the LF Electric and CF Hybrid in 2019. DAF will be ready to introduce these state-of-the-art trucks when the market is ready.

## **90 years of DAF Excellence**

To commemorate the fact that it has been 90 years since Hub van Doorne laid the foundation of DAF, a historic DAF 1600 model from the late sixties is on display at the IAA-stand, next to a highly exclusive XF 90<sup>th</sup> Anniversary Edition which commemorates the founding of DAF in 1928. The vehicle features a premium options package, exclusive striping and exterior design elements, as well as the most powerful 530 hp/390 kW PACCAR MX-13 engine. DAF's famous historic logo is proudly displayed on the front of the truck, on the sides and back of the cab, as well as in the luxurious, fully leather upholstered interior.

In the past 90 years DAF has developed the European truck industry's leading vehicles. DAF's heavy-duty market share in Europe grew from 15.3% in 2017 to 16.5% in the first half of this year. DAF Trucks is the heavy duty market leader in The Netherlands, Hungary, United Kingdom, Poland, Belgium, Romania, the Czech Republic and Bulgaria, and is Europe's market leader in the tractor segment. In Germany – the largest truck market in Europe – DAF is the largest import brand. "With excellent trucks – setting the standard in efficiency and quality – and industry-leading services, DAF is well positioned to further expand its presence throughout Europe and beyond", said Harry Wolters, DAF Trucks' president.

The DAF stand in Hall 17 features dedicated areas with class leading trucks for long distance and vocational operation, highlighting that DAF delivers the perfect vehicle for every application.

The following vehicles are on display at the DAF stand in Hall 17 (stand number B20):

### **Leading today**

#### *On Highway trucks*

XF 530	4x2 tractor with Super Space Cab
XF 530	6x2 tractor with Super Space Cab
XF 480	6x2 rigid with ex-factory BDF frame

*Vocational trucks*

LF 290 Construction	4x2 rigid with Day Cab
CF 450	8x2 rigid with VDL Hook lift system
CF 450	8x4 rigid with Liebherr mixer

**Proud of our Heritage**

1600	1967 4x2 rigid
XF 90 <sup>th</sup> Anniversary Edition	4x2 tractor with Super Space Cab – limited edition

**Ready for the Future**

LF Electric Innovation Truck  
CF Electric Innovation Truck  
CF Hybrid Innovation Truck

Hanover, 19 September 2018

*Specifications and vehicle models may differ from country to country in connection with different market needs and circumstances. For detailed information on the product range available in your country, please contact the PR representative of the national DAF organisation.*