



## **MAN Engines develops maintenance-free valve train for industrial engines**

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**No maintenance or disassembly; makes more efficient use of available space; low-noise operation**

MAN Engines will be launching a maintenance-free valve train for industrial engines at the Agritechnica show. For this the engine manufacturer is using a hydraulic valve lash adjuster, which makes regular checking and adjustment of the valve train unnecessary. Machine operators will benefit from the elimination of routine maintenance intervals and the resulting costs. "The cylinder head cover is often very difficult to access due to the limited space available in the machines. This means checking the valve clearance often entails time-consuming disassembly. With the hydraulic valve lash adjuster we are offering a solution that saves time and money, and thereby generates real added value for our customers," comments Reiner Roessner, MAN Engines Head of Sales.

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Balancing of the valve clearance, which is necessary due to thermally induced changes in length and wear of the components in the operating clearance of all industrial engines, is carried out automatically by means of a hydraulic element on the rocker arm. The hydraulic valve lash adjuster replaces adjusting screws with which the valve clearance was previously adjusted manually, and ensures that the valve timing corresponds to the optimum design timing of the engine. This guarantees low and constant exhaust and consumption figures over the entire product lifecycle. In addition, noise emission due to the valve clearance is prevented, which results in even smoother running of the engine.

The elimination of disassembly and maintenance work also brings further benefits: The transfer of deposits and dirt into the engine is prevented. In addition, the space freed up above the cylinder head can be used more

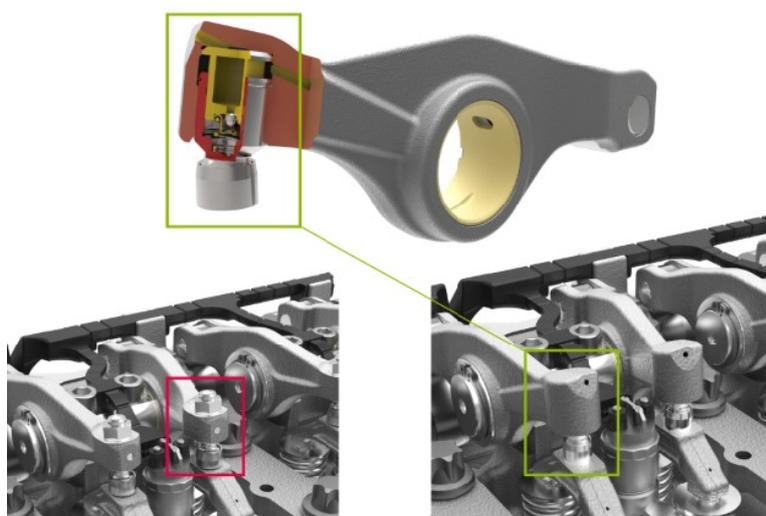
MAN Truck & Bus is one of Europe's leading commercial vehicle manufacturers and transport solution providers, with an annual revenue of some 11 billion euros (2018). The company's product portfolio includes vans, trucks, buses/coaches and diesel and gas engines along with services related to passenger and cargo transport. MAN Truck & Bus is a company of TRATON SE and employs more than 36,000 people worldwide.

efficiently in many future applications. This increases machine manufacturers' flexibility and options for motor integration into the application. This makes it possible, for example, to locate increasingly complex exhaust gas aftertreatment systems close to the engine in order to comply with ever stricter emission limits.

The valve train is expected to be available from 2021, and will be installed in the D1556, D2676, D3876 and D4276 straight-six engines.

### **MAN Engines at Agritechnica**

A model of the hydraulic valve lash adjuster will be demonstrated on the cut-away model of the new 16.2 litre MAN D4276 diesel engine at the Agritechnica show taking place at the Hanover Exhibition Centre from November 10 to 16. The MAN Engines stand D41 in hall 16, on a footprint of more than 200 square metres, will also play host to the D1556 9-litre diesel engine, the E3268 V8 gas engine, as well as the company's modular exhaust gas aftertreatment system. MAN Truck & Bus will be showcasing a special agricultural truck that demonstrates the versatility of trucks in the agricultural sector.



*MAN Engines valve train with integrated hydraulic valve lash adjuster elements (right picture)*