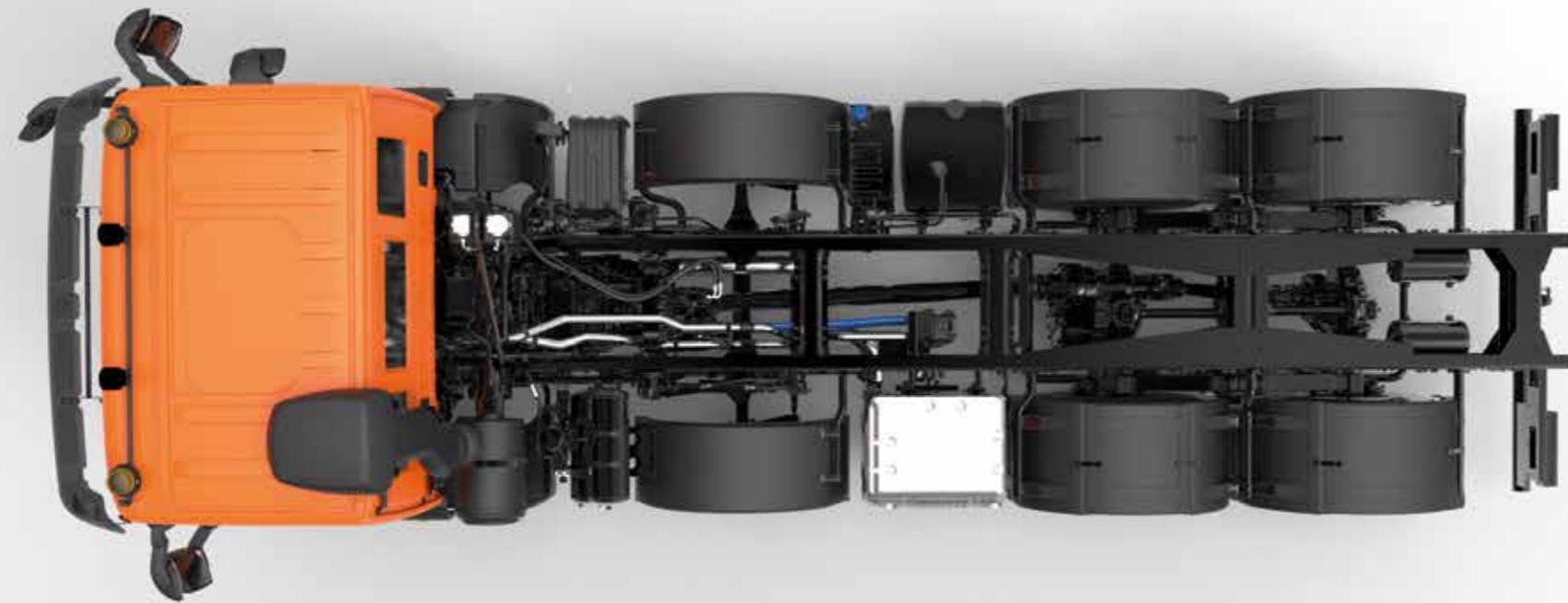


# HD 9 E6





## WORK HARD, EVERYWHERE.

Extra strong machines, ready for extreme conditions and environments. Easy to set-up, repair and maintain through the entire life-cycle. Robustness, versatility, mobility, mission dedication and loading capabilities are the key values of the HD9 range, designed for heavy-duty applications in mining, quarry, construction, oil & gas, and heavy haulage.

Special heavy-duty chassis, state-of-the-art driveline, simple electric and electronic architectures: everything has been designed to face the most demanding situations for climate, terrain and loading capabilities. This makes the new Astra HD9 Euro VI the ideal partner on those missions where working hard is the rule.

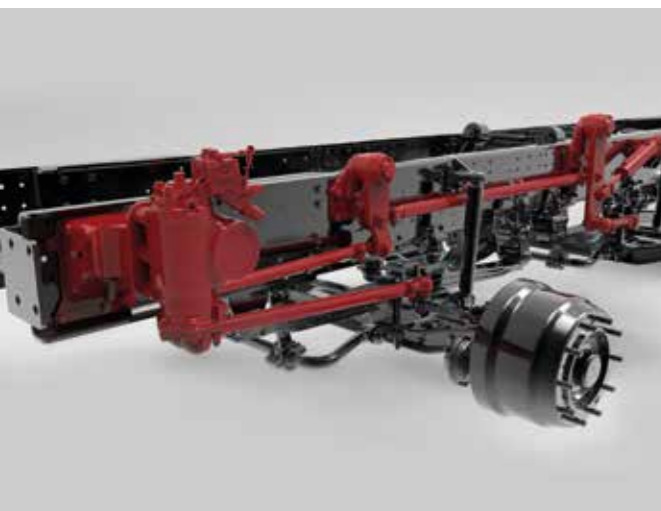
Seventy years of constant dedication and experience, coupled with innovative technologies, allow the new Astra HD9 to match the most professional requirements and ensure efficient and productive solutions worldwide.



## EXTRA STRONG COMPONENTS

The HD9 features heavy-duty components designed to provide robustness and reliability for the most demanding off-road use, allowing for a total **GVW up to 50 ton** and over:

- **A unique heavy-duty chassis:** 820mm wide, made of sturdy high-tensile steel side members with large section dimensions (320x90x10mm) to ensure a high torsional stiffness, high stability and vehicle dynamic performance. The side members have constant and parallel section for the entire length of the frame to simplify body and components mounting operations.
- **An exclusive “power-ring” rear tandem solution:** designed with the highest safety standards for a limit of 40 ton to increase the strength and the rigidity of the entire chassis structure.
- **A specific steering system design:** oversize steering rods to increase mobility capabilities and driving comfort in difficult terrain or extra load conditions.



## EURO VI: HIGH PERFORMANCE ENGINE

The new Astra HD9 is powered by the FPT 13 liter Euro VI Cursor engine featuring the following innovative solutions:

- The **New Common Rail High Pressure Injection system** improves the combustion process and increases the engine efficiency in terms of power output (up to 560hp) and torque rising while reducing noise and minimizing fuel consumption. The third-generation multiple injection system is integrated and protected by the engine cover and the extended oil change intervals ensure an improved package and maintenance standards.
- The **Hi-eSCR system without EGR** (Exhaust Gas Recirculation) allows best thermal efficiency while reducing weight and complexity. The conversion efficiency also allows a passive continuous regeneration of the DPF (Diesel Particulate Filter) which ensures lower maintenance costs.
- The **EVGT** (Electronic controlled Variable Geometry Turbocharger) delivers excellent performances in terms of vehicle dynamics and optimal transient response. High torque (up to 2.500 Nm) at low engine speed (1.000 rpm) ensures excellent driving elasticity in any condition, no matter the slopes and loads.
- The **Super Engine Brake** allows 30 % more braking power (330kW@1900rpm) compared with the EuroV version. This thanks to an innovative butterfly valve on the exhaust which improves the thermal management of the after-treatment system.



BEYOND THE ROAD

