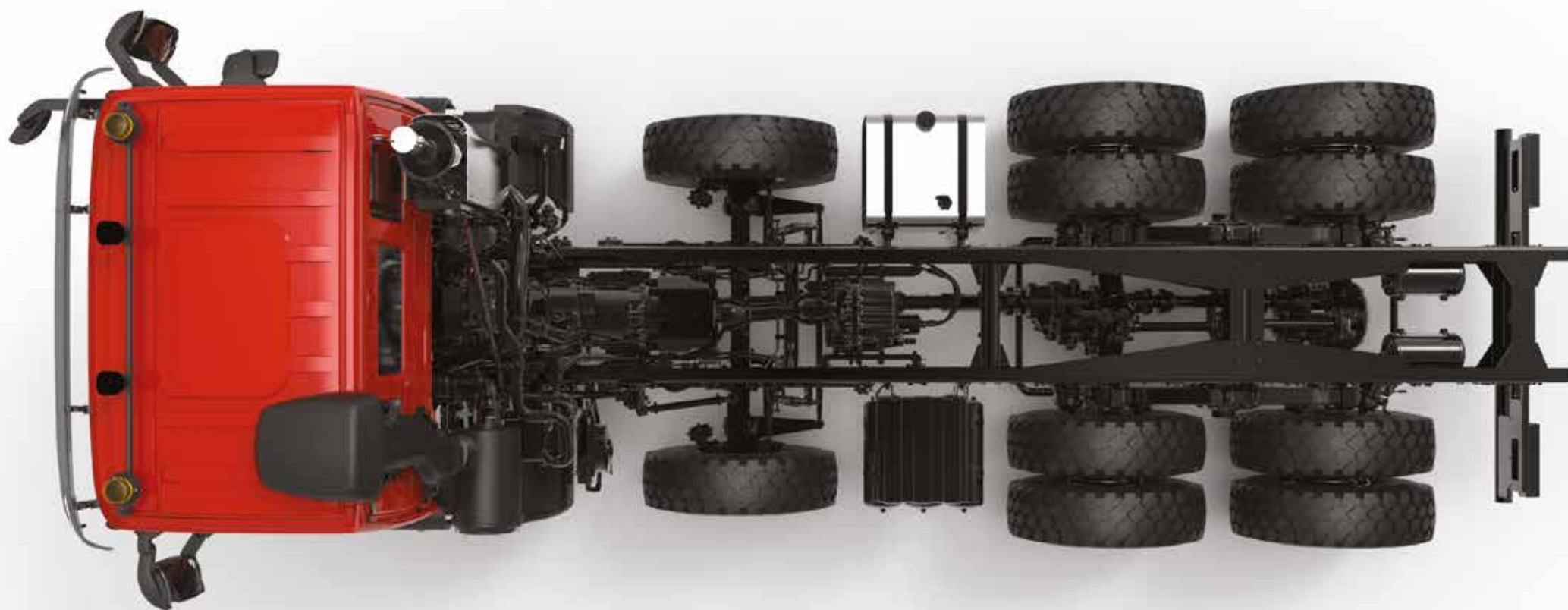


WORK HARD, EVERYWHERE



ASTRA VALUE PROPOSITION

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, quarrying, 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 Astra HD9 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 Astra HD9 to match the most professional requirements and ensure efficient and productive solutions worldwide.

EXTRA STRONG COMPONENTS

The HD9 range features heavy-duty components designed to provide robustness and reliability for the most demanding off-road use, allowing for a total **GVW up to 60.000 kg and over:**

A unique heavy-duty chassis:

820mm wide, made of sturdy high-tensile steel side members (590Mpa) 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. The extra heavy-duty variant of the frame includes two inner C reinforcements of 6mm thickness each for a GVW up to 60.000 kg according to vehicle configuration and with adequate speed.

An exclusive “power-ring” rear tandem solution:

designed with the highest safety standards for a limit of 40.000 kg 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.

A long-lasting suspension system:

front and rear mechanical parabolic leaf springs in standard or reinforced version or, alternatively for very heavy conditions of use, semi-elliptical leaf springs.

