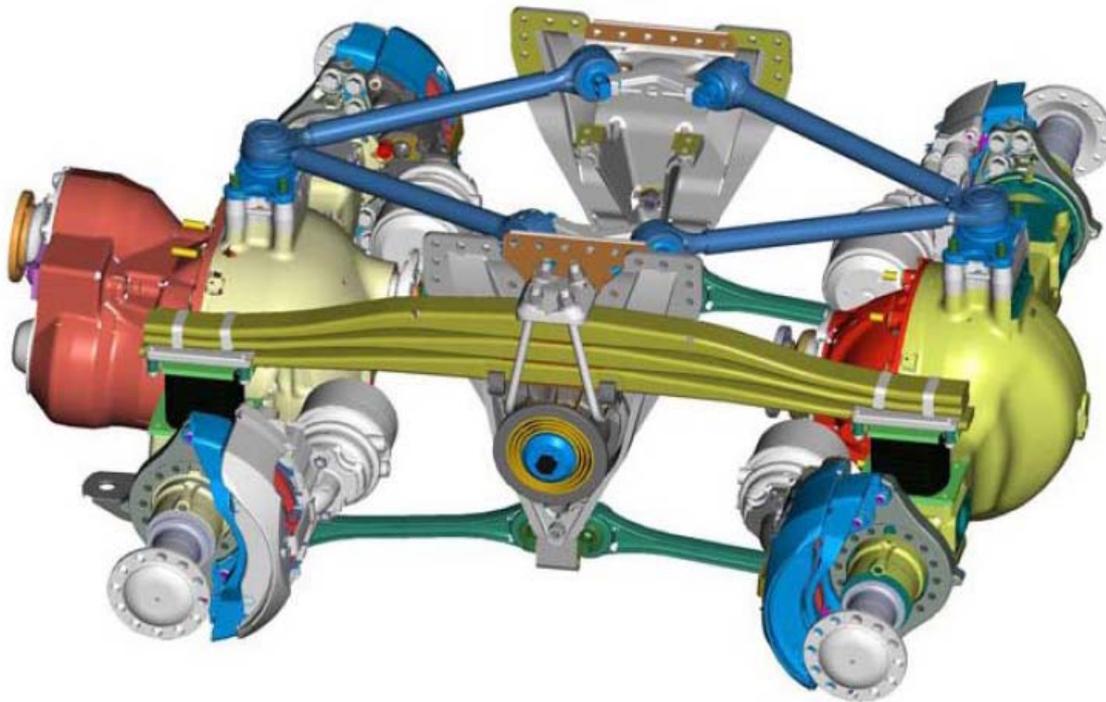


MACK Inverted Leaf (MIL) Extra Heavy Duty Suspension MILX

The MACK inverted leaf extra-heavy duty suspension, is the toughest in the range of MIL suspensions. Specifically designed to cope with the harshest of road conditions and the biggest loads, the MILX laps up every job you can throw at it. The lubrication free design means no weekly maintenance, while still maintaining outstanding durability and reliability.

The combination of four drive angle torque rods and quad track rods ensures there is a strong link between the tyres, the chassis and the load. The MIL suspension feels at home in the toughest conditions, whether it be transporting unstable loads such as livestock or fuel transportation or in an application requiring high articulation and ground clearance, the MIL is the perfect solution.



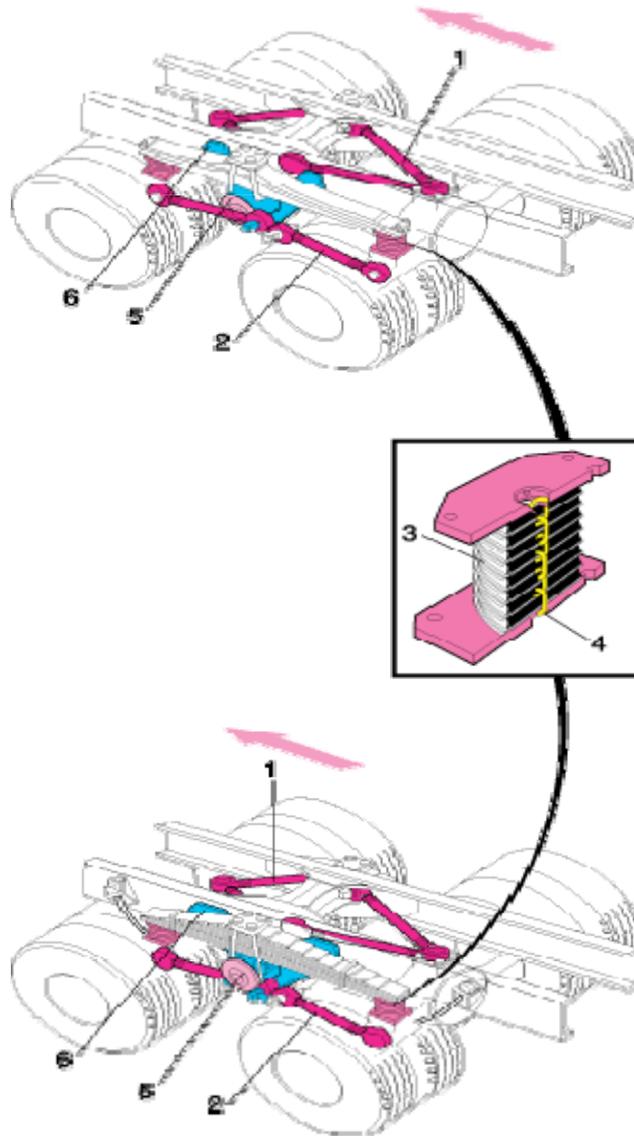
Features

- 24tonne ground rated spring packs.
- Rubber dampeners between the spring leaves & the axle housings enhance the ride under all load conditions.
- 1,370mm axle spread.
- 2 Heavy Duty Shock Absorbers

*Note: MIL suspensions are only available with selected vendor axles.
MILX is not a certified 'road-friendly' suspension.

MACK Inverted Leaf (MIL) Heavy Duty Suspension

The rear axles are attached to the chassis with V-stays (1) and reaction rods (2). These transfer to the frame all lateral forces and the forces that arise during starts and in braking. They also keep the axles properly located laterally. The MIL-X bogie is equipped with parabolic springs. The spring assemblies are attached to both rear axles with the help of rubber springs (3). The rubber springs absorb shaking and vibration from the axles. Inside the rubber springs there is a chain (4) that limits their expansion. The springs are attached to the frame via two sub-frames (5). They are each journalled in a bogie anchorage (6). The MIL-X bogie MIL-H and MIL-M bogie have the same properties and basic design but differ in that the MIL-X bogie has sturdier springs and thicker stays. The MIL-M bogies are specially developed for heavy long-haul operations, while the MIL-X bogie is designed for the heaviest of all transportation assignments, such as mining, livestock and logging applications.

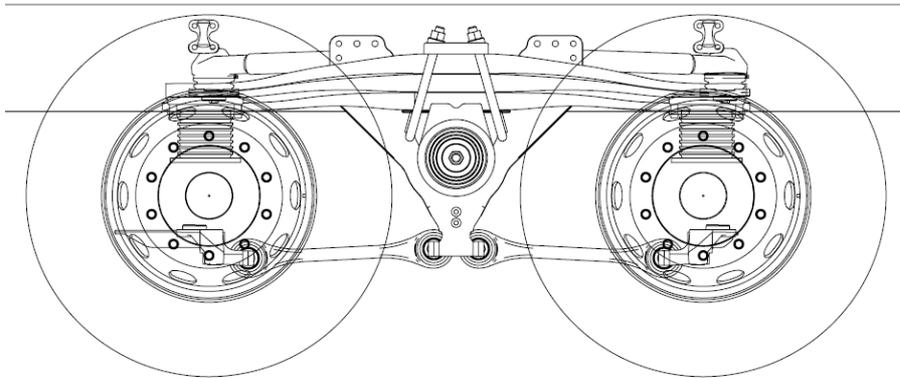


MACK Inverted Leaf (MIL) Heavy Duty Suspension

Mack Inverted Leaf (MIL) is now standard with parabolic springs. Rating options 18,000kg, 21,000kg & 24,000kg, depending on application.

What is a parabolic spring?

Parabolic springs have leaves with a tapered profile. This tapering is based on the parabola that for every mm of the leaf, the thickness decreases in an amount that relates to the function of the leaf. This is a technical way to say that each parabolic leaf has the same shape & function of a complete multi-leaf spring assembly (the leaves of a parabolic spring are thicker in the centre and thinner at the outer ends). A single parabolic leaf is able to cope with the same forces inside the leaf as would a complete conventional 8 multi-leaf or more spring.



Features

- Parabolic springs are tapered to give uniform stress down the length of the spring, and no sudden concentrations of stress at transition points between leaves which elevate the risk of premature fatigue failure.
- Because the parabolic leaves are tapered and do not come into contact with each other, the spring surface is shot peened for increased strength where strength is needed. Such surface treatment is not possible on multi-leaf packs because of the inter-leaf contact.
- Parabolic springs save on tare weight because of the uniform stressing – no additional material just along for the ride.
- Unladen ride & handling is not compromised.
- The design is lighter and more flexible than conventional multi-leaf, thus better traction and axle articulation in off highway applications.
- The fact that there is very little inter-leaf friction on parabolic springs means that ride is improved dramatically but dampening needs to be introduced via shock absorbers to partially compensate in an optimised way.