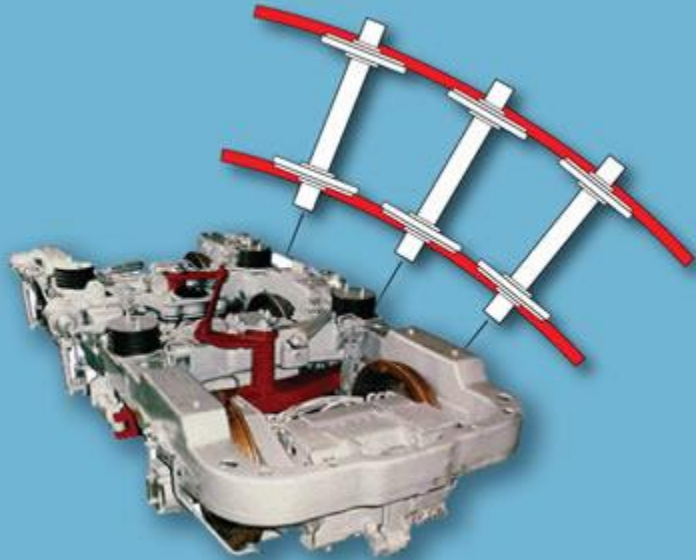


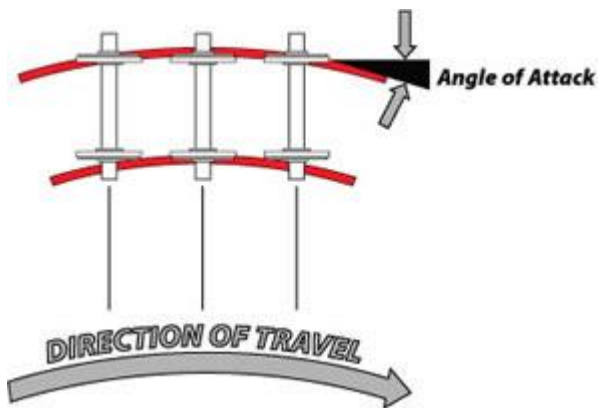
Patented Radial Bogie

Electro-Motive Diesel's patented three-axle radial bogie is a major advancement in locomotive suspension and adhesion. A generation ahead of competitors, EMD's breakthrough radial bogie technology:

- Slashes locomotive operating and life-cycle costs
- Improves locomotive adhesion and performance
- Eliminates many conventional bogie components
- Extends locomotive component and track life
- Improves ride quality



Conventional



Wheels mounted in a conventional rigid bogie cannot conform to curves. Their flanges bite into the gauge face of the rail, wearing metal from both surfaces.

Patented Radial Bogie



The EMD radial bogie reduces the angle of attack, and literally steers through curves, keeping wheels parallel to the direction of the track.

Simplified Design Eliminates Parts and Maintenance

Because its steering feature eliminates several major sources of bogie stress and shock, the EMD radial bogie dispenses with more than a half dozen components. The radial bogie has no bolster, no chafing plates, no pedestal liners, no traction motor nose pack and no center-bowl liner to inspect, maintain or replace. Downtime is minimized, and bogie maintenance is reduced due to the elimination of weld buildup and machining of bogie pedestals.