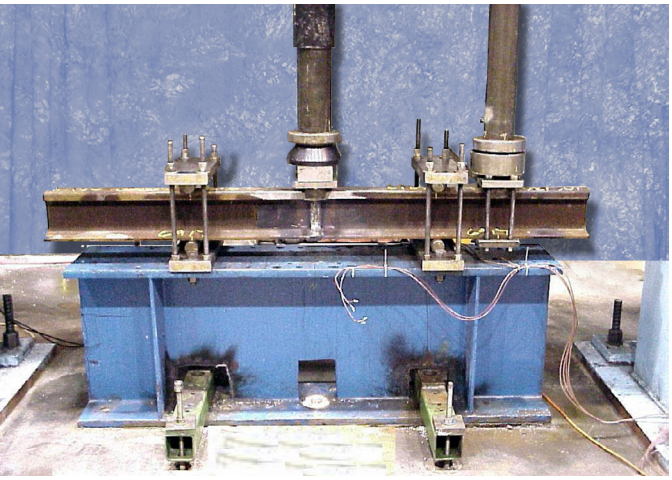

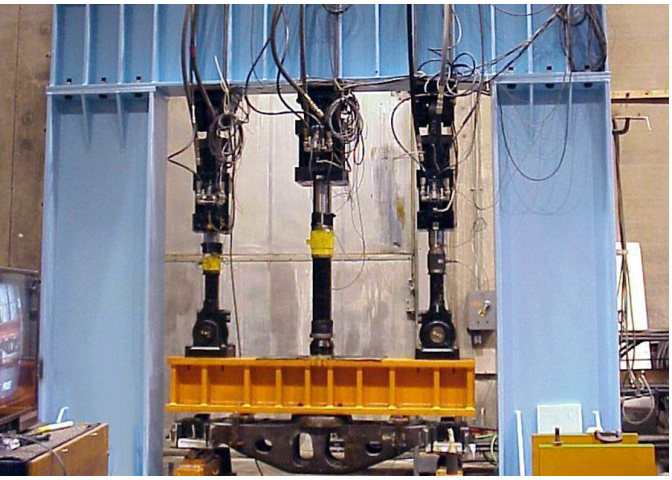

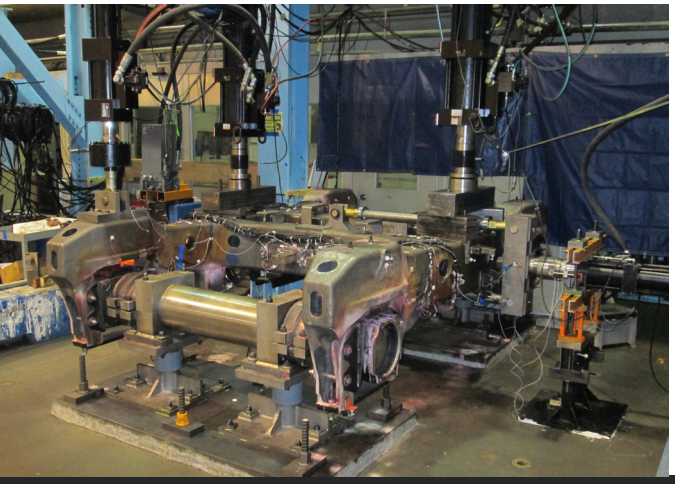

Rail

CTLGroup has been serving the rail industry for over 25 years. Our team is composed of mechanical engineers, metallurgical engineers, metallurgists, and highly skilled test technicians. We work closely with railroads, rapid transit authorities, railway component manufacturers, railway and transit consultants, contractors, highway transportation equipment suppliers, and government agencies, delivering expert services that include:

- Complex, large-scale testing of parts + components
- Customized product development, quality assurance, + problem assessment testing
- Testing vehicle components to industry specifications
- Data acquistion of field service conditions
- Data analysis + part/component performance evaluation

We provide clients with in-depth metallurgical and mechanical services, such as:

- Root cause + failure analysis
- Materials characterization + selection
- Microstructure, heat treatment + casting quality
- Weld evaluation
- Corrosion + material degradation
- Mechanical design + integrity
- Field evaluation + joint inspections

Rail Industry Testing Standards and Accreditation

- American Railway Engineering and Maintenance-of-Way Association (AREMA)
- American Public Transportation Association (APTA)
- Amtrak and Association of American Railroads (AAR)
- ISO 17025 approved facility

Track Component Testing

- Direct fixation fasteners
- Grade crossings
- Welded rail
- Rail joints
- Wood, concrete, + composite ties
- Tie fastener, tie inserts, pads + plugs

Vehicle Component Testing

- Bolsters, side frames, + brake beams
- Draft gear, couplers, + yokes
- Fabricated trucks
- Locomotive engine components
- Trailer king pin assemblies
- Transit car components
- Suspension components
- Side bearings
- Engine components