

**ROBERT NEWMAN ENGINEERING  
LLC**

Robert Newman

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Charleston, SC

Railway  
Track  
Mechanical  
Legal  
FELA  
Insurance

## Resume of G. Robert Newman



## RESUME of G. Robert Newman

### Background:

1. 36 years Railway Engineering and Railway Track Engineering Experience
2. Registered Professional Engineer (South Carolina with Reciprocity 50 States)
3. BS Mechanical Engineering University of Tennessee
4. MS Mechanical Engineering University of Tennessee
5. Business Experience: 21 years as President of a \$280 M per year company manufacturing railway track maintenance machinery and providing on track contract services. Total 36 years with the company with most time spent in General Management, design of heavy machinery, engineering of structures, design safety, litigation, and machine components.
6. Company: Harsco Track Technologies Division of Harsco Corporation (Now Harsco Rail)
7. Graduate US Navy Officer Candidate School
8. AMS® (Accredited Marine Surveyor® for legal, insurance, engines & safety)
9. Non Technical Expertise

- a. FELA (Federal Employees Liability Act)
- b. Product Liability
- c. On track safety
- d. Industrial Safety
- e. Business Interruption Costs
- f. Extensive Deposition Experience
- g. Extensive Litigation Experience
- h. International Business Marketing and Management

### 10. Areas of technical expertise:

- a. On Track Heavy Machinery
- b. On Track Light Machinery
- c. Railway Track Maintenance and Construction Machinery
- d. FELA Claims – Technical
- e. Railway Ballast
- f. On track safety engineering
- g. Off track safety engineering
- h. Industrial Safety engineering
- i. Off Road Vehicles
- j. On Road Vehicles
- k. On Track Machinery
- l. Construction Machinery Including Earth Moving
- m. Lifting Equipment
- n. Open Deck Railway Bridges
- o. Ballast Deck Railway Bridges
- p. Railway Lifting Equipment
- q. Railway Power Tools
- r. Railway Hand Tools

- s. Conveyors
- t. Material Handling
- u. Hydraulic Controls
- v. Electrical Controls for Hydraulic and Mechanical Systems
- w. Structural
- x. Manufacturing Engineering Including Fabrication of Structures and Machinery (Cutting, Bending, Machining of Metal Fabrications)
- y. Foundry Processes
- z. General Machine Design
- aa. Power Train Including Railway and Marine
- bb. Diesel Power
- cc. Gasoline Power
- dd. Transmissions
- ee. Hydraulic Brakes
- ff. Railway Engineering (Track & Rolling Stock)
- gg. US Navy Experience with Diesel Engines, Boilers, and Turbines
- hh. Marine (Accredited Marine Surveyor®) Website:  
<http://www.marineenginesurvey.com/>

11. Extensive experience conducting business in USA, China, India, Australia, Japan, Canada, and United Kingdom

12. Other interests:

- a. Intercoastal Waterway Cruising
- b. Marine Surveying
- c. Antique cars
- d. High performance cars
- e. Water skiing
- f. Bicycling

10. Other Information

- a. Tau Beta Pi Engineering Honorary Society
- b. Pi Tau Sigma Mechanical Engineering Honor Society
- c. Eagle Scout
- d. Past Leader Boy Scouts of America

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Example of one of many types of machines I have been involved in the design of. This is a Tamper, and it is used to smooth and align railway track. It is a complex structural machine using Diesel power and computer controlled hydraulics to control the machine and do the work.



Switch & Crossing Rail Grinder  
Network Rail – United Kingdom



Track Renewal Train