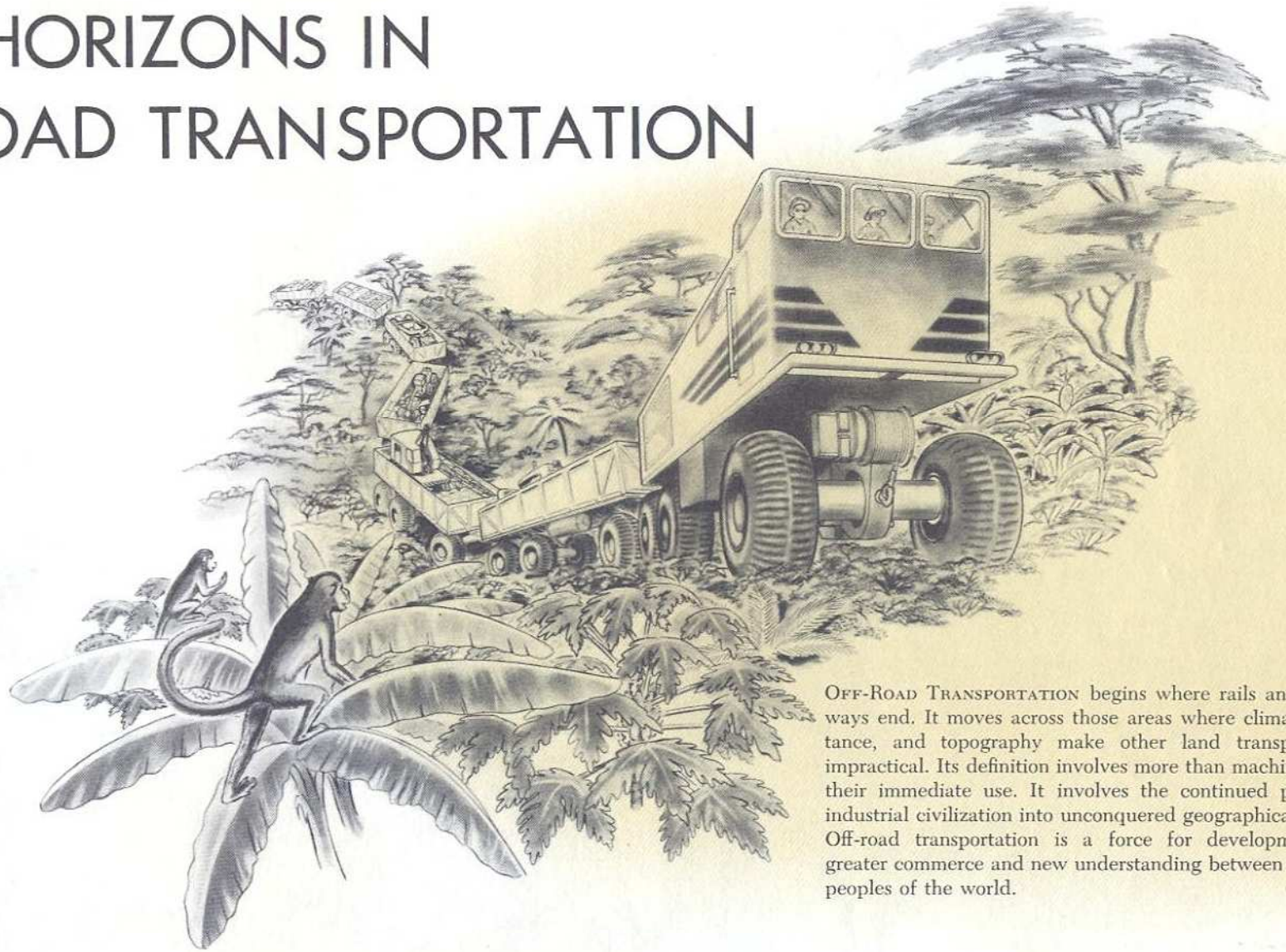


# NEW HORIZONS IN OFF-ROAD TRANSPORTATION



OFF-ROAD TRANSPORTATION begins where rails and roadways end. It moves across those areas where climate, distance, and topography make other land transportation impractical. Its definition involves more than machines and their immediate use. It involves the continued press of industrial civilization into unconquered geographical areas. Off-road transportation is a force for development of greater commerce and new understanding between diverse peoples of the world.

R. C. LeTOURNEAU, INC. • GENERAL OFFICES • LONGVIEW, TEXAS



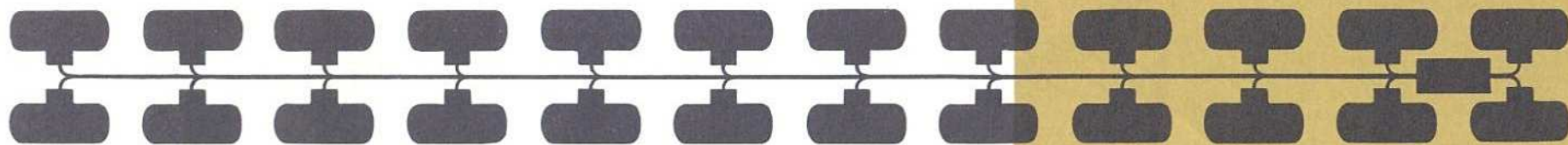
## EVERY WHEEL A LOCOMOTIVE ON NEW LeTOURNEAU FREIGHTERS



FOR MEN WHO SEE beyond the horizon, R. G. LeTourneau, Inc., of Longview, Texas, manufactures a new kind of transport vehicle for off-road commerce — self-powered, heavy cargo carriers independent of roadbeds, climate or terrain.

These new Cross-Country Freighters represent a concept of locomotion which holds that total motive power should be distributed under total load. Electric power is used for convenient, flexible distribution; and every wheel becomes a driver by virtue of a powerful electric motor and gear reduction built within its rim. One car carries an electric generating plant which supplies energy to all wheels. Then, no matter how many cargo cars are coupled together to make up a "train," each one carries its own load; none is pushed or pulled by an independent prime mover. However, because the cars are coupled mechanically as well as electrically, the wheels reinforce each other — combining their driving power to keep the whole carrier moving. Because driving power is present at every point of surface contact, LeTourneau Cross-Country Freighters go over, across, or through obstacles impassable to every other type of vehicle.

Today LeTourneau Freighters, equipped with Electric Wheels, are spanning snow, sand, and jungle wastelands.

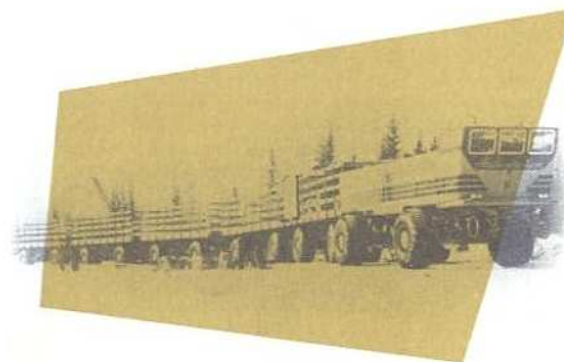




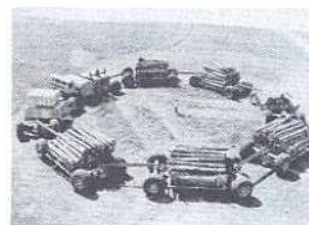
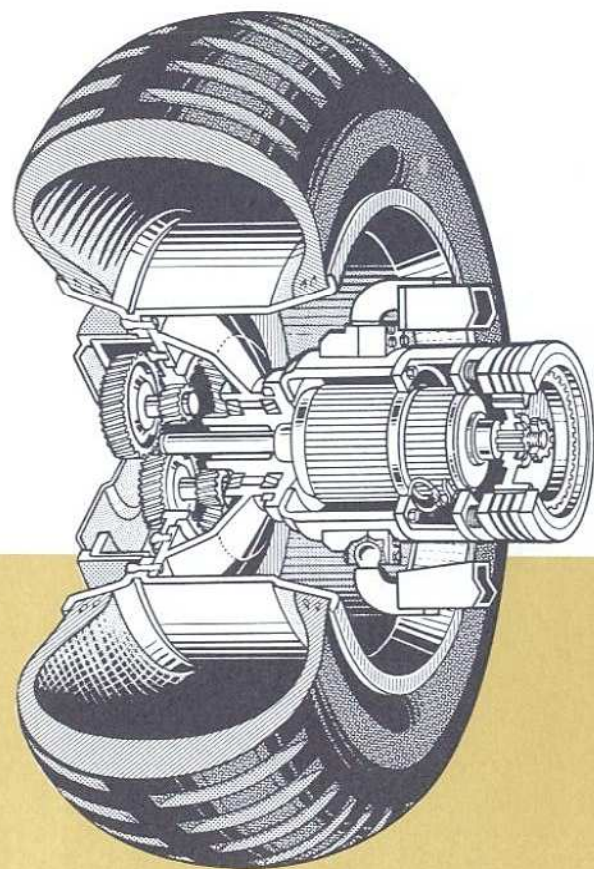
R. G. LeTourneau, Inc., has manufactured BIG equipment since 1929. No change has been made in its corporate structure since that year.

In 1953, LeTourneau sold its earthmoving business. Included in this sale were two of its U. S. plants and its distribution organization. Two plants were retained at Longview, Texas, and Vicksburg, Mississippi.

Today, LeTourneau is using its experience and skills in building new electrically powered and controlled equipment for logging, land clearing and off-road transportation. Typical of the new LeTourneau transportation equipment is the Sno-Freighter, designed specifically for winter freighting across ice, snow, and frozen ground along the Arctic coast of North America. The picture shows the Freighter at work deep in the Alaskan interior.







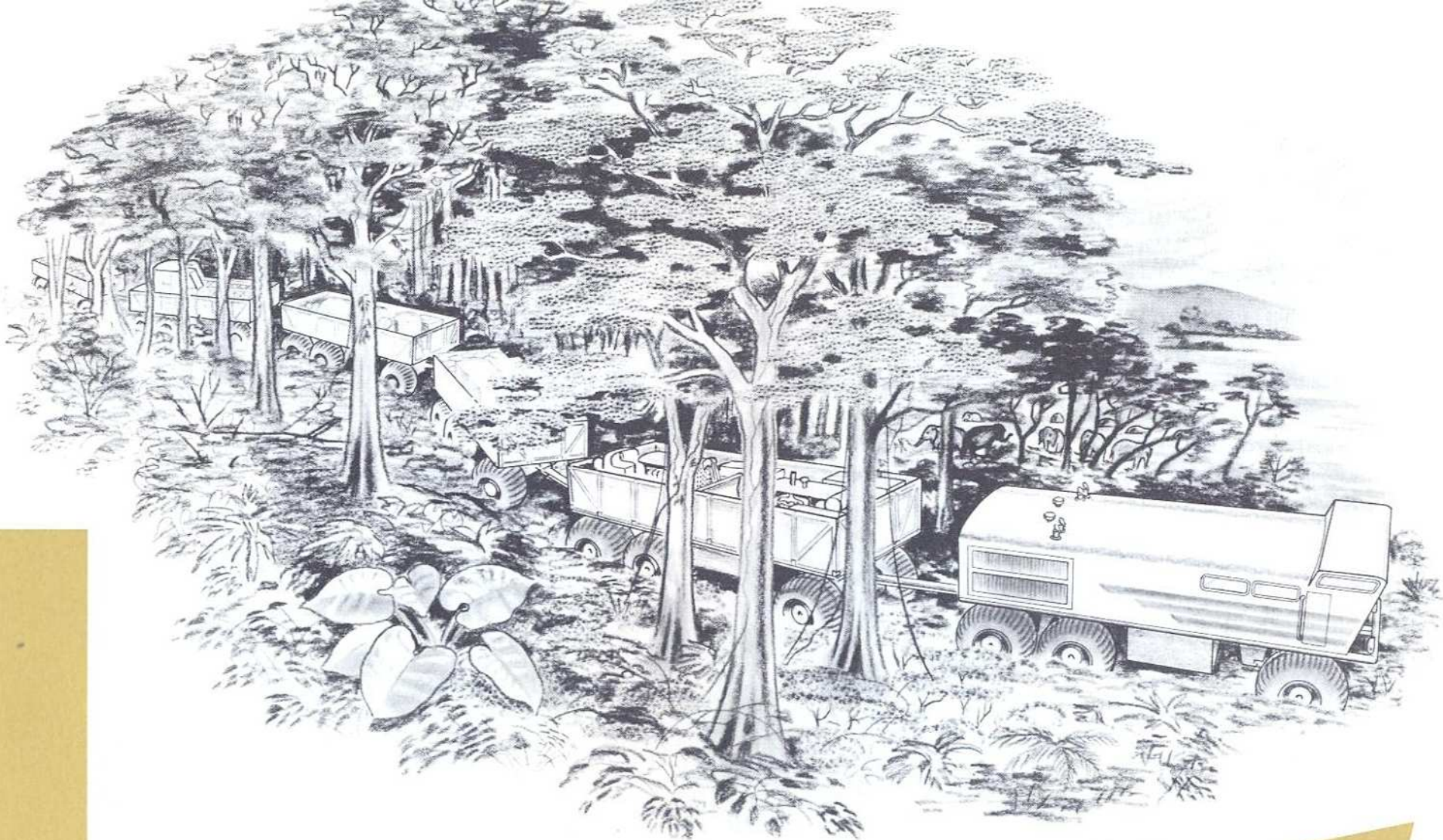
**INDEPENDENT DRIVE** at every point of ground contact is made possible by the LeTourneau Electric Wheel – the first efficient use of electricity in transmitting motive power from engine to wheels. The drawing on this page shows how every wheel becomes an independent driver with its own powered shaft and gear train.

Independent drive permits independent wheel mounting and eliminates all mechanical power couplings from axle to engine and from wheel to wheel. Finally, each electric drive unit has mounted on it a giant, extra-wide base tire designed for the terrain where the machine is to operate.

Tires range in size up to 10 feet high and four feet wide and easily roll over normal topographic variations. They operate without inner tubes and at air pressures as low as five pounds. Ground shocks are absorbed by flexing of the tires, permitting wheels to be firmly attached to heavy steel mountings. Roughness of off-road operation is further minimized by use of oscillating axles on each car.

Each car of a LeTourneau Cross-Country Freighter automatically steers the one immediately behind it through the mechanical coupling between sections. To guide the vehicle, the operator steers the two front wheels by means of electric controls. Automatic tracking by succeeding cars and their extreme maneuverability is illustrated in the pictures on this page.

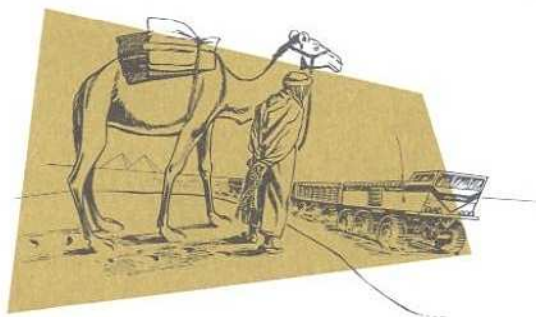




Because LeTourneau Cross-Country Freighters travel over bulldozed trails and can negotiate most natural grades, they permit an extension of commerce through jungle country. Great new productive areas will be developed along the routes of these off-road transporters.







Loose desert sand makes smooth riding – for vehicles that can travel on it. With wide tires for flotation and every wheel driving for traction, the LeTourneau Desert Freighter is an efficient mechanical caravan.

## ELECTRIC WHEELS INDEPENDENT OF ROADS, RAILS, AND GRADES



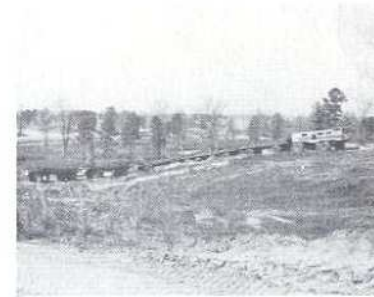
THE MAJOR OBSTACLE to establishing freight routes through undeveloped areas is the high cost of building and maintaining roadways. Most cargo carriers with sufficient speed to make overland hauling profitable require smooth running surfaces and slow-rising grades.

But LeTourneau Cross-Country Freighters move cargo speedily over open country or along bulldozed trails; they travel up grades of 20 per cent or more.

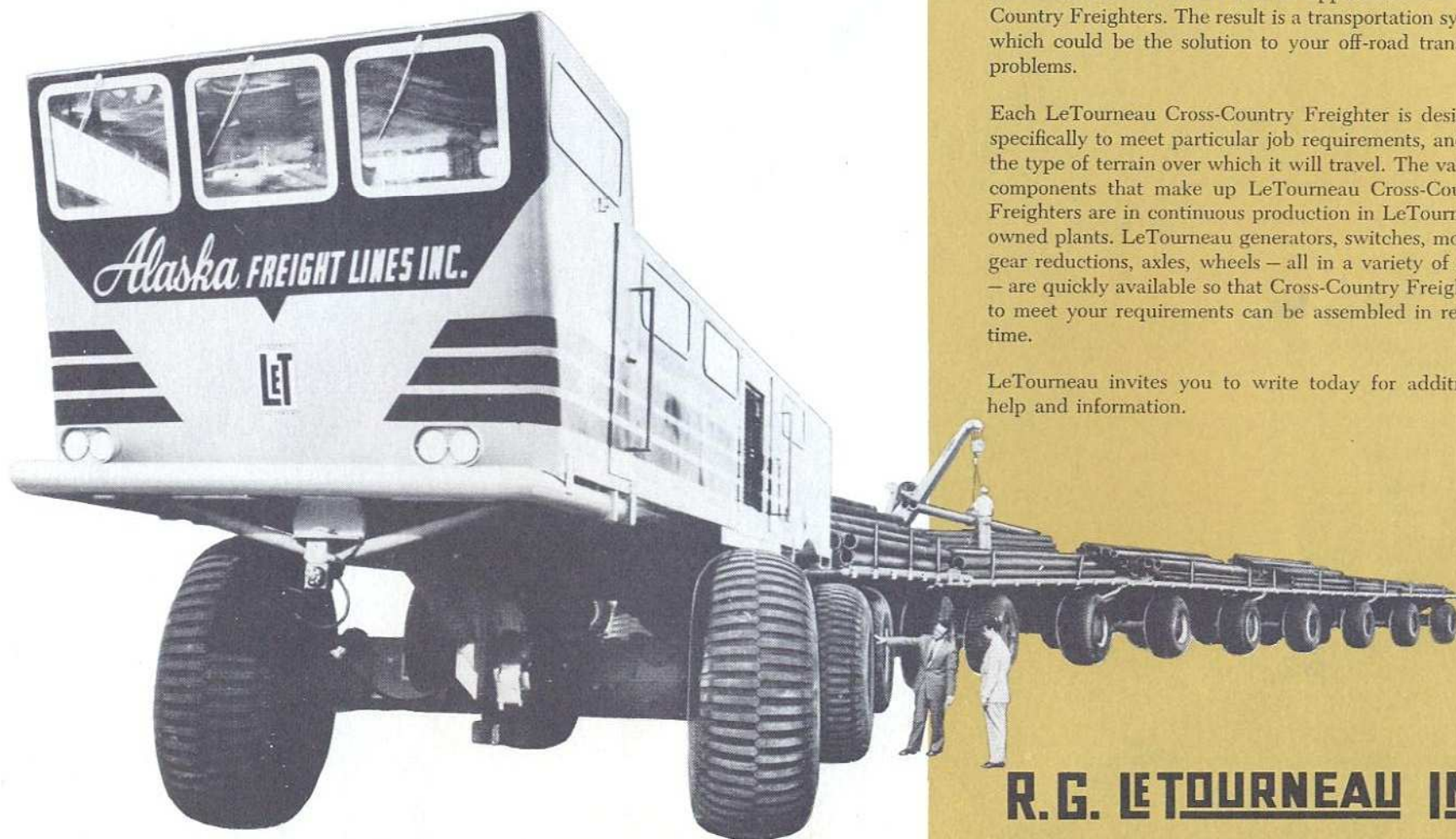
Ability to negotiate steep grades stems from electric wheel drive and the distributed traction which "carries" the load instead of pulling it. Infinite power selection made possible by electric drive and control permits wheel power to be held exactly at the point of maximum traction without slipping the wheels on slick surfaces.

The Electric Drive System that gets LeTourneau Freighters up steep slopes also provides electrical braking for down-grade travel. Speed is safely controlled by regenerative braking, which has no mechanical parts to wear or fail. Positive mechanical braking is held in reserve for emergency stops and for parking on grades.

Giant tires provide speed with safety over rough terrain. The tires greater contact area smooths out rough places, and with oscillating axles protects Freighter and cargo from shock.







Today freighting across wilderness areas is a practical reality made possible by the development of the LeTourneau Electric Wheel and its application to Cross-Country Freighters. The result is a transportation system which could be the solution to your off-road transport problems.

Each LeTourneau Cross-Country Freighter is designed specifically to meet particular job requirements, and for the type of terrain over which it will travel. The various components that make up LeTourneau Cross-Country Freighters are in continuous production in LeTourneau-owned plants. LeTourneau generators, switches, motors, gear reductions, axles, wheels — all in a variety of sizes — are quickly available so that Cross-Country Freighters to meet your requirements can be assembled in record time.

LeTourneau invites you to write today for additional help and information.

**R.G. LETOURNEAU INC**  
**GENERAL OFFICES: LONGVIEW, TEXAS**  
**CABLE BOBLETORNO**  
**U. S. A.**

