



The Evolution of Transportation



What's new?

- Passive, friction free (non-contact), **magnetic suspension systems** float carriages continuously, a minimum 1" above guideway rails. No electrified suspension components are included in the vehicle or the guideway. No motion, energy, sensors or controls are needed to maintain stable vehicle position above the guideway rails. One LEVX® carriage has remained in perpetual levitation, **magnetically suspended** above its guideway for over **100,000 hours** and counting, with a second exceeding 75,000 hours.

- Highly efficient, non-contact **propulsion and braking** systems use proprietary, commercially proven, energy and maintenance saving, eddy current drives to move carriages smoothly forward or backward even at very low speeds. Like the magnetic suspension, the passive linear conductor in the guideway requires no power supply, or controls.

The evolution of heavy transport technology has taken a leap into the future with the development and demonstration of full scale LEVX® freight transport systems that possess unmatched operating efficiencies and provide low cost infrastructure options. LEVX® technologies point the way to an economically and environmentally sustainable future where transport energy requirements can be reduced by up to 95%.

95% reduction in transport energy

Construction of the LEVX® freight demonstration has been completed and the system is now undergoing long-term testing at Magna Force, Inc.'s facilities in Port Angeles, Washington. The LEVX® demonstration features core LEVX® technologies, the friction free magnetic suspension system and non-contact permanent magnet propulsion and braking systems for the clean and efficient transport of heavy loads.

Testing of the LEVX® freight carriage loaded with over 68,000 pounds of payload supports calculations that full freight containers can be transported 5 miles with an average energy consumption of .25 kWh per container mile traveled, or a total of 1.25 kWh for the entire 5 mile trip. This reflects an energy savings of up to 95% over conventional drayage trucks and will extend the workable range of today's alternative energy supplies.

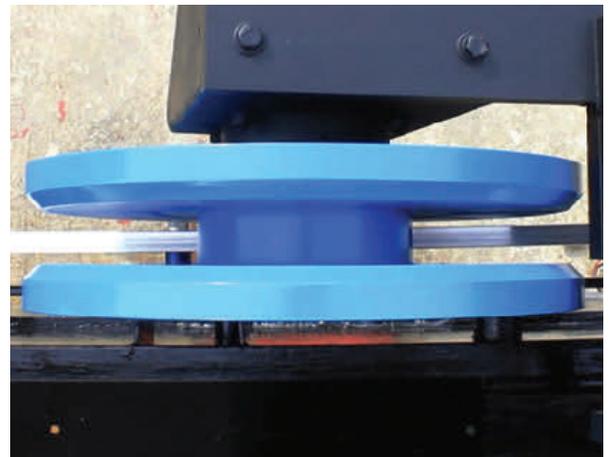
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A new generation of
zero emission
magnetic levitation
transportation technology



Economically and environmentally sustainable development

The passive LEVX® magnetic suspension system provides the key to overall system efficiency by eliminating the static drag associated with weight bearing wheels and the magnetic drag developed in electromagnetic systems. Heavy wheel and axle components are replaced by simple, passive magnetic repulsion dispersing the weight of the load evenly along the length of the carriage. Carriages are levitated at least 1" above guideway rails enabling forgiving construction tolerances which lower engineering requirements and construction costs.

No point along the magnetic suspension is ever loaded to more than 20 pounds per square inch. Impact loads that are also associated with weight bearing wheels are eliminated as the weight of carriages transfers softly along the guideway. Together, these benefits dramatically reduce the materials

required to construct lightweight LEVX® guideways.

LEVX® cornering enhancing technologies allow freight carriages to conform to minimal 60' radius corners to conserve space and adhere to existing right of ways and further support cost containment strategies.

Simple LEVX® guideway structures provide additional cost advantages over other fixed guideway systems as they contain no complex and expensive electrified components, no third rails, no overhead wires, no copper coils and no wayside power conditioning equipment.

LEVX® transportation systems may be built as first infrastructure in newly developing areas or to add throughput capacity to densely developed and overburdened regions.

For more information visit our website: www.levx.com