

monorails without increasing costs. Current capacities are in excess of 7 000 passengers per hour and as they are capable of operating at speeds of up to 100 kilometres an hour, the quiet, rubber-tired monorail system could comfortably accommodate as many passengers as six lanes of traffic, significantly reducing traffic congestion, air and noise pollution, energy use and transit costs.

The all-electric Disney monorail system, operates on a 26-inch-wide beamway. The total width of the two-lane monorail structure measures just over half that of a conventional 30-foot rail structure. This feature will enable cities to reduce the loss of valuable, taxable land needed for conventional rail systems.

The monorail beamway both supports and guides the cars, in contrast to standard elevated guideways whose rails are added to massive support structures, thereby increasing costs. In addition, monorail beams have a hollow core, designed for minimum weight, maximum strength and minimum cost. Consequently, monorail guideways can be built for 30 per cent less cost than those of conventional systems.

Monorail systems are also considered more aesthetically pleasing. The narrowness of monorail beams results in an open-looking guideway system which casts fewer shadows than the massive, conventional elevated structures.

A major operating cost advantage lies in the negligible track maintenance requirements. The 15 miles of track at Walt Disney World are maintained by a team of only two.

People movers

The term "people movers" fits transit vehicles of all types, from airplanes to automobiles, but the term is increasingly being reserved for systems designed to handle concentrations of pedestrian traffic over relatively short distances. This feature distinguishes people movers from the more widely recognized monorail system which is used in applications requiring higher speeds and greater intervals between stations.

The Disney-designed PeopleMovers are noise-free, pollution-free horizontal elevators. In operation at Disney World in Florida since 1975, they have also proven to be reliable, and energy efficient with low operating and maintenance costs.

The Disney PeopleMover train is driven by a series of computer-controlled linear induction motors that are embedded in the track to create a magnetic field which propels the vehicle. The car itself has no on-board propulsion equipment. Sensors along the track ensure that power is applied only to those motors directly under a train.



Monorail systems are recognized as viable, cost-effective alternatives for public transit.

The cars themselves have a very small number of moving parts which reduces wear and maintenance costs. The PeopleMover is also known for its high safety record.

Extensive exports

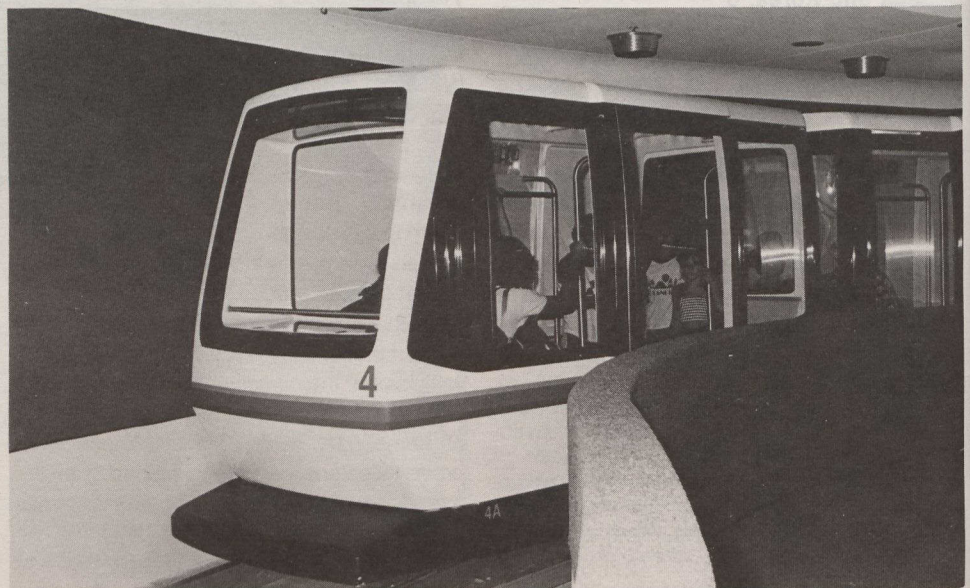
Bombardier Inc., founded in 1942, is a multi-divisional, Canadian corporation with multinational markets and activities in seven Canadian, two American, and two Austrian plants. More than 50 per cent of the Canadian production is exported, to be sold in some 50 countries on five continents.

The company is involved in the design, development, manufacture and marketing of transportation-related equipment and products including snowmobiles, diesel-electric locomotives and diesel engines, logistic vehicles for the military market, all-terrain

tracked utility vehicles and mass transit equipment. In 1984 total sales amounted to \$491 million (Cdn).

Created to supply cars to the Montreal subway system in 1974, Bombardier's Mass Transit Division now offers a full line of transit equipment including rapid transit cars, light rail vehicles, inter-city passenger trains, commuter cars, monorails and people movers. It has sold transit equipment in Montreal, Chicago, New Jersey, Mexico City, Portland and New York City, and high-speed trains in Canada. The Austrian Division in Vienna, Bombardier-Rotax, manufactures tramways for the Austrian market.

The company is currently negotiating to build an extension of the monorail system at Disney World in Orlando, Florida, and for sales of a people mover system.



The WEDway PeopleMovers are fully automated, noise-free, pollution-free horizontal elevators designed to move pedestrians over relatively short distances.