

Monday
December 19

FOLEY
FOLEY & LARDNER LLP

Foley & Lardner LLP

MASS
High Tech
THE JOURNAL OF NEW ENGLAND TECHNOLOGY

Qualify for a free print subscription [Gof>>](#)
Register now! FREE daily Tech Flash e-mail! [Gof>>](#)

[HOME](#)

[SUBSCRIPTIONS](#)

[ADVERTISING](#)

[ARCHIVE SEARCH](#)

[CONTACT US](#)

The Journal of New England Technology

Purchase the
New England
Directory of High
Tech Companies

Start searching the
Directory of High
Tech Companies

List your company in the
Directory of High
Tech Companies

AMSC helps speed Japanese maglev train to 500kph

12/07/2005 10:37 AM

American Superconductor Corp. of Westborough, a maker of alternative electricity systems, reports that Central Japan Railway Co. (JR Central) successfully ran its magnetically levitated train system for the first time using high temperature superconductor (HTS) electromagnetic coils powered by American Superconductor's HTS wire.

The maglev train attained speeds as high as 500 kilometers per hour (approximately 311 miles per hour), while it levitated about 10 centimeters (4 inches) above its "track." Superconductor electromagnets are used as the lifting component in JR Central's maglev train system. Data on the vibration and temperature characteristics of the HTS electromagnet will be collected and analyzed to provide a basis for further improvements.

The maglev train is being considered for Japan's Chuo Shinkansen, a main transportation route connecting Tokyo to Osaka, according to the company. JR Central has been running its maglev trains since 1997 utilizing low temperature superconductor (LTS) electromagnets. HTS electromagnets offer several advantages over LTS electromagnets including a much less complex cooling system allowing simpler designs, lower costs and more reliability, according to AMSC officials.

Additional testing and analysis are required in order for HTS electromagnets to be chosen as the preferred solution for maglev trains. AMSC estimates that the total potential HTS wire requirement for a full, commercial maglev train system for the Tokyo-Osaka run exceeds 100 million meters (62,137 miles).

OUR CURRENT ISSUE

- [Defense](#)
- [Community](#)
- [Security](#)
- [Public Policy](#)
- [Wireless](#)
- [Finance](#)
- [Biotech](#)
- [Software](#)
- [Industry Briefs](#)
- [Energy](#)
- [Personnel](#)
- [Med Tech](#)
- [Life Sciences](#)
- [Movers & Innovators](#)
- [Internet](#)
- [Telecommunications](#)

THIS WEEK'S CLOSEUP

[Opportunities in
Advanced Energy](#)

[DIALOGUE](#)

[CALENDAR](#)

[Submit your Calendar
Listing Online!](#)

- MOVERS
- PERSONNEL FILE
- COLUMNS
- OTHER TECHNOLOGY NEWS

AMSC stock opened the day at \$8.84 per share, up 7 cents from yesterday's close.

EMAIL ARTICLE TO A FRIEND... >>

[American City Business Journals](#)
(news from 41 Business publications around the country)

OTHER USEFUL LINKS

- SURVEYS
- COMMUNITY LINKS
- EDITORIAL CALENDAR
- STOCK INDEX
- All-Stars 2005
- TechCitizenship
- SUPPLEMENTS

[Home](#) | [Subscriptions](#) | [Contact Us](#) | [Advertising](#)
All Rights Reserved. Mass High Tech 2000
[Privacy Policy](#) | [User Agreement](#)



**Looking for
Tech, BioTech, Pharmaceutical LEADS?**