New world speed record for Japan’s supertrain

Maglev
- Record: 603 kph for 10.8 seconds
- Total cost: 70 billion euros
- New line planned for 2017

Operates using electrically charged magnets
- Propulsion via push and pull forces
- From 100 kph, these forces make it possible for the train to be lifted above the track
- Lateral movement comes from a combination of magnetic forces between the walls

A special track
An electric current is sent to propulsion coils, creating a magnetic field

Superconductive magnets

Aerodynamic brakes

Doors

Liquid helium reservoir

Liquid nitrogen reservoir

Refrigeration

Concrete wall

Wheel supports

Superconductive coils

Speed records
- JR-Maglev ML 500 Japan, 2015 603 kph
- TGV France, 2007 574.8 kph
- CRH380A China, 2010 486 kph

TOKYO
Nagoya
200 km

Graphics
Ready-to-use and editable illustrations
AFP’s graphics service offers visual explanations of international news, sports, society and special productions for major events, intended for use on print, TV, website, tablet and mobile.

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