

The world's fastest electromagnetic propulsion system with a speed of 1,030 km/h, nearly the speed of sound

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The world's fastest electromagnetic propulsion system will be used to provide testing conditions and support research in advanced materials, aerospace and ultra-high-speed transportation including ships and aircraft.

The electromagnetic sled's cargo compartment does not contain fuel, has a faster response speed and is easier to control than a rocket sled.

This research facility in Jinan, China is the world's first ground-based super high-speed vehicle testing site using electromagnetic fields.

The research team had to overcome major technical and technological challenges such as a 100 megawatt power system, designing and manufacturing a high-thrust linear motor. to be able to propel a capsule weighing several tons at speed. record.

The system is powered by two main parts: a coil placed inside the carrier compartment and a groove for a strong magnetic field. When the current in the coil is turned on, the magnetic field produces an electromagnetic force that pushes the carrier forward at extremely fast speeds.

Maglev trains hover above the tracks so they have lower friction, higher speeds and cause less pollution. The maglev train is also smoother when moving, creating less noise to help bring a better experience to passengers.

The fastest commercial maglev train in operation can reach a speed of 431 km/h, built by Shanghai Transrapid company with German technology.

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