



RIDE LAUNCH TECHNOLOGY

LEM

LINEAR EDDY CURRENT MOTORIZED DRIVE

innovative
simple
proven
cost effective

FOR A NEW
ROLLER COASTER
GENERATION

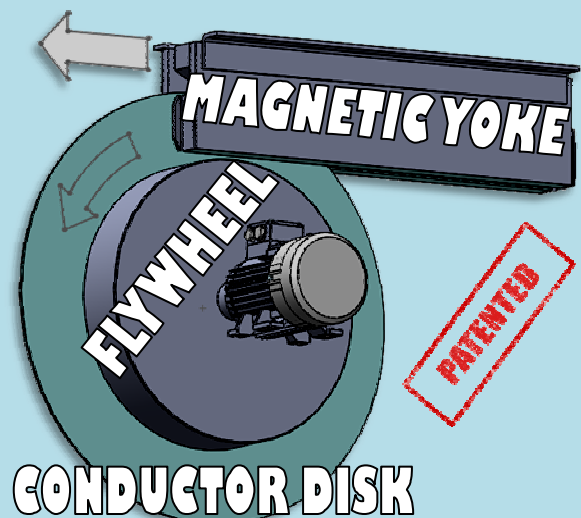
The principle is the same as for eddy current brakes: no contact, no friction, low maintenance and high reliability.

A **SPINNING CONDUCTOR DISK**, driven by a standard asynchronous motor, interacts with a **MAGNETIC YOKE** placed underneath a car in a roller coaster.

When the circumferential speed of the disk is higher than the linear speed of the car, **THE CAR IS PUSHED** along the rail.

Also a **FLYWHEEL** will normally be coupled to the conductor disk, storing energy thus allowing **NO PEAKS OF POWER CONSUMPTION**, unlike with other types of linear motors.

The magnetic yoke under the car will also serve for **BRAKING** at the end of the loop.



LEM can launch any size of coaster

**Both big and small coasters
can benefit from a LEM launch system**



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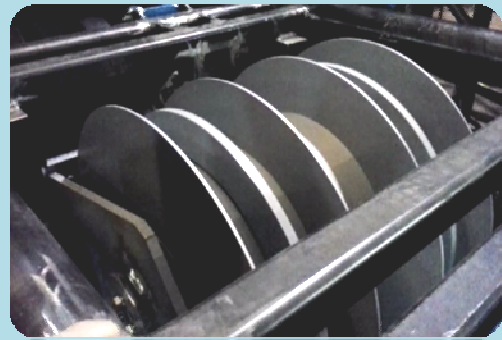
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By stacking more disks in line along the track, virtually **ANY ENERGY AND SPEED MAY BE TRANSFERRED BY LEM** to the car or train.



Also, more conductor disks in parallel can push as many magnetic pads, increasing the drive strength and limiting the launch length.



Example of a small yet thrilling coaster supplied with **LEM**, named "Drifter", by I.E. Park



**Visit us to see a
LIVE DEMO LAUNCH**
or check out our videos on **YouTube**

- ✓ We design and manufacture customized **LEM** systems.
- ✓ We simulate with high precision launched ride dynamics.
- ✓ Contact us for more information or ask an assessment for your ride. No obligation.
- ✓ Check out also our **megamag** eddy current brakes on www.megamag.it

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