

6.09. DYNAMIC BRAKING SYSTEM ON PERMANENT MAGNETS

The development is designed for non-contact braking of moving objects. It can be used in elevator and transport systems, as well as in entertainment attractions.

Main technical specifications:

Static braking force, H	7000 – 70000
Initial braking speed, m/s	50
Final braking speed, m/s	0,5
Overall dimensions of the magnetic system (L×W×H), m	(0,6 – 2)×0,5×0,07

Advantages

The braking occurs without any use of power supplies due to the electromagnetic interaction of the field of permanent magnets with an electrically conductive combined band. The system provides high operational reliability and braking efficiency over a wide range of speeds and forces with more than 2X reduction in costs on active magnetic material compared to foreign developments.