

Maglev v HSR



Transrapid TR09

Cost **£16m/km** (net)(£10m/mile)

1.14p/km/seat (0.7p/mile/seat)

Station length: **250m**

Normal 2 class: **820** persons

Max No. Seats: **1280**

5.1persons/linear meter

Top speed: **505km/h** (314 mph)

HSR (Duplex cars)

Cost **£18m/km** (net)(£11.2m/mile)

2.3p/km/seat (1.4p/mile/seat)

Station length **400m**

Normal 2 class: **1018** persons

Max No Seats: **1200**

3 persons/linear meter

Top speed: **320km/h** (198 mph)

SC-Maglev L0

Cost **£25/km** (net)(£15.5m/mile)

1.5p/km/seat(0.9p/mile/seat)

Station length **380m**

Normal 2 class: **860** persons

Max No Seats: **1014**

2.7persons/linear meter

Top speed: **505km/h**



Transrapid

HSR (Duplex cars)

SC Maglev

Tunnel diameter

10m

11m

8m

Curve radius at 300km/h (185 mph)

1600m

>4000m

2800m

Max gradient

10%

3%

10%

Max gradient at 500km/h (310 mph)

6%

N/A

4%

Acceleration 0-300

4km (2.5 miles)

21km (13 miles)

3.7km (2.3 miles)

Acceleration 0-500

22km (13.6 miles)

N/A

20km (12.5 miles)

Carriage width

3.7m

2.9m

2.9m