

Freefall record attempt

Austrian skydiver **Felix Baumgartner** will attempt to make history with the **Red Bull Stratos** project by leaping from a capsule attached to a helium balloon at a height of more than 36 kilometres – breaking four world records in the process

km ALTITUDES AND RECORDS

Target for record attempt
At least 36,567m (120,000ft)

Current manned balloon record: **34,668m**

Current freefall record: **31,332m**

SR-71
Highest flying manned jet aircraft
25,900m

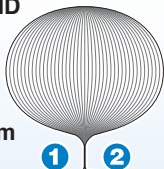
Perlan glider
15,453m

Commercial aircraft
12,000m

STRATOSPHERE
Mount Everest
8,848m

TROPOSPHERE

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Capsule: Rises to jump altitude in three hours

Pressure shell

Camera

Door

Balloon
Expands to diameter of 80m

Insulated skin over chrome alloy steel frame



Baumgartner will depressurize capsule and inflate his suit before jumping

Parachute pack
Contains oxygen supply



Suit
Protects wearer from air pressure low enough to make blood "boil", and temperatures of minus 70°C

Helmet: Regulator supplies 100% oxygen at all times, heated visor

1 Highest manned balloon flight:
At least 36,567m

2 Highest freefall: **At least 36,567m**

3 Fastest freefall: **Mach 1*** – first human to break sound barrier unaided

4 Longest freefall: **5 mins 35 secs** – parachute opens at 1,520m

