

*Photo courtesy of David Pirmann*

CUSTOMER

[Herrekor SL \(Dellner Brakes' distributor in Spain\)](#)

BACKGROUND

The Tramvia Blau is a museum quality, 2-axle tram that operates on a segment of Barcelona's original tramway system serving the 512 m (1,680 ft) Tibidabo mountain.

The tramway was originally opened in 1901 along with a funicular railway (cable car) and the Tibidabo Amusement Park, which sits at the top of the mountain along with the neo-Gothic 'Sagrat Cor' (Church of the Sacred Heart).

The blue trams were completely renovated in 1990 to run the traditional route from John F. Kennedy Square to Doctor Andreu Square, from where visitors can catch the funicular to the mountain top.

APPLICATION

In 2004, two of the tram cars were upgraded with a more modern running and brake system. Each car is fitted with two Dellner SKD 65 hydraulically pressure applied brakes that are used in conjunction with the existing four level electrical brakes.

The Dellner SKD 65s help to smooth out the steps of the electrical brakes and also serve as the emergency back-up brake system in case the electrical brakes fail.

Each SKD 65 is mounted on the drive wheel shaft and utilises a $\varnothing 600$ mm (23.62 in) split type brake disc to give a braking torque of 13.9 kNm (10250 lbf-ft).