



SIEMENS

Paris Charles de Gaulle Airport (France)

CDGVAL Line 1, Line 2

Val fully automated metro system - Turnkey project

With its 70 km/h peak speed, the CDGVAL line 1 connects the three airport terminals, CDG1, CDG2 and CDG3 as well as the RER/TGV stations and the long-term parking lots PR and PX in only 8 minutes.

The integral automatic control system in this Val makes the traffic very flexible and reduces the waiting time in stations by increasing the number of trains per hour (every 4 minutes in peak times) under optimal safety conditions.

The CDGVAL line 1 operates around the clock and enables 57 million transiting passengers each year, as well as the 80,000 employees of the hub to travel from one terminal to another quickly and effortlessly.

The CDGVAL line 2 covers the 600 m separating terminal 2E from the S3 satellite in only 60 seconds. It operates 20 hours a day. In June 2012, the line has been extended (300 meters) through to the new S4 satellite.

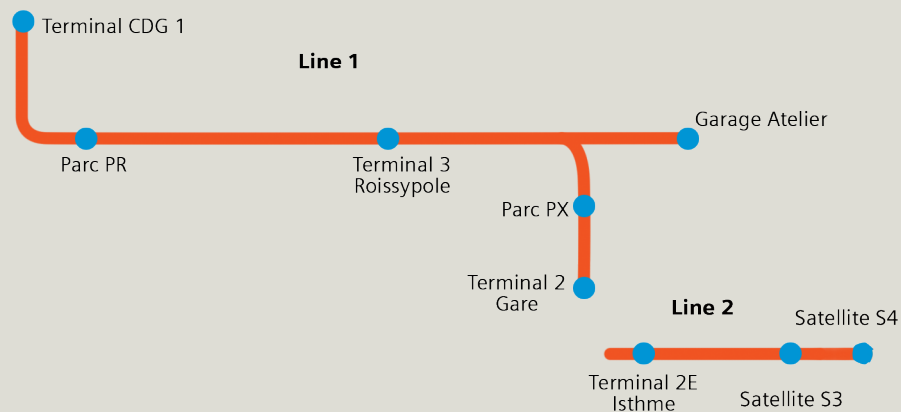
The all-electric CDGVAL is a safe, clean and silent method of transport, as it runs on tires. To a great extent, it replaces the diesel shuttle busses used previously. Each bus ran 120,000 kilometers per year. With the CDGVAL, 750 tons of diesel will be saved. The CDGVAL will also prevent the emission of 15 tons of nitrogen oxides and 2,500 tons of carbon dioxide into the atmosphere per year.

Aéroports de Paris has entrusted the management of the CDGVAL to Aérosat, a subsidiary owned 85% by Keolis and 15% by Siemens. Siemens is also involved in the maintenance of the Operations Control Center, the automatic control systems, the rolling stock, the power supply systems, platform screen doors and the track.

Approximately 50 people have been specially recruited and trained in Val engineering services, with the assistance of maintenance and operating experts from Siemens and Keolis.

Answers for cities.

Technical Information	Line 1	Line 2
Line length	3.3 km - double lane guideway	0.9 km
Number of stations	5	3
Number of vehicles / Car consist	7 Val 208 married-pair 118 passengers per Married-pair	11 Val 208 married-pair 128 passengers per Married-pair
System technology	Fully automated AGT system. Fixed block technology.	
Contract award	December 2002	February 2004
Revenue service	April 2007	June 2007 (extended in June 2012)
Passengers carried/peak hour	1900 pphpd for the revenue service - Fixed equipment are designed for 4100 pphpd	4 500 pphpd
Passengers carried annually	10 000 000	10 000 000
Operating hours	24 hours/day, 7 days/week	20 hours/day, 7 days/week
Type of service	Pinched loop	Shuttle
System Availability Achieved	99.5 %	99.75 %
Commercial speed	26 km/h	30 km/h



Siemens SAS
 Infrastructure & Cities Sector
 Rail Systems Division
 150, avenue de la République - BP 101
 92223 Châtillon cedex
 France
 Tel. : +33 1 49 65 70 00