



SIEMENS



Lille (France) Lines 1 & 2

Val fully automated metro system

Turnkey contract including all E & M system work elements, and civil work interfaces.

Fully automated AGT system without driver or on-board attendant. ATC functions include train regulation, variable headway management, push recovery mode and platform door operation, pinched loop operation, management of reinforced service on city centre section.

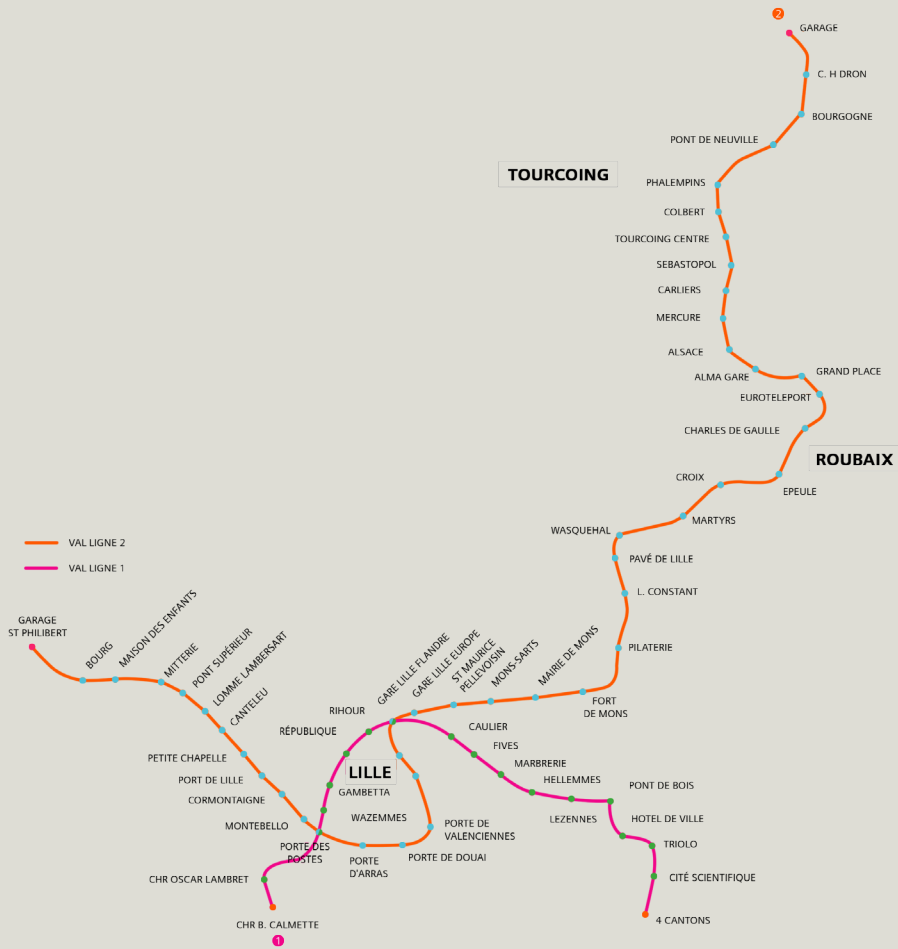
High level of performance and availability, and short operating headways (60 s).

Under these system turnkey contracts, Siemens was responsible for Automatic Train Control (on board and wayside), control center, signaling, communication systems, platform doors, power supply, vehicles, depot, technical buildings, and track.

Under a contract for operation, maintenance and technical assistance, and for level 3 corrective maintenance, Siemens managed the Operating Company during the initial 5 years of revenue service. Since 1989, Siemens owns 12% of the shares of the Operating Company in charge of the bus, LRT and Val operations.

Answers for cities.

Technical Information	Line 1	Line 2
Line length	13 km	12 km (phase I, 1989) 5 km (phase II, 1995) 16 km (extensions, 1999)
Number of stations	18	44
Number of vehicles / Car consist	38 Val 206 Married-pairs	45 Val 206 MP ; 60 Val 208 MP
System technology	Siemens Transportation Systems fully automated AGT. Fixed block technology.	
Contract award	1977	1984 - 1990 - 1994
Revenue service	1983	1989
Passengers carried/peak hour	16 800 pphpd	
Passengers carried annually	48 million (Line 1 + Line 2)	
Operating hours	20 hours/day	
Type of service	Urban	
System Availability Achieved	99.5 %	
Commercial speed	34 km/h	



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