



Airval

Transportation Systems

SIEMENS

Airval: Fully Automated Airport People Mover

Siemens high performance Airval® is the new rubber tired fully Automated People Mover that brings efficiency, flexibility, safety and security to modern airports



Turnkey from Siemens Transportation Systems

Airval is a turnkey APM solution specially adapted to modern airports and the operating expectations of airlines. Applications include indoor-hub rapid passenger transit, terminal to terminal inter-connection and airport to city lines. Full operation & maintenance packages are provided. Its large competencies and broad international experience ensure that customers receive efficient, safe and tailored transportation solutions.

Modern design for modern airport

Airval smartly inserts into all architectures thanks to short curve radius, high gradient and a conception that permit modularity of train configurations from 1 to 6 cars. Airval innovative design brings a dynamic touch to today's large airports development projects. Minimizing noise, vibrations and pollution, Airval also takes full advantage of the latest proven technology such as CBTC, high performance radio and a safe central guiding system to optimize operating and maintenance costs.

The modular design of Airval enables easy phasing of line construction resulting in smooth and progressive investment whilst extending the APM line without disruption to passenger service.

Safety and security

With the benefits of a quarter of a century of technical heritage in fully automated systems and outstanding references in major international airports, Airval is a key to success for high levels of performance and safety.

Full CCTV coverage increases the feeling of security for passengers whilst providing the authorities with the means to carefully control passenger transit with APM completely integrated into the airport security system.

Maximum flexibility in operation

The service availability of up to 24h/7days is adapted to the fluctuating demand of large airports. The system provides numerous operating modes such as night on-demand service or shuttle mode on a single line.





Airval:
100% secure system

Car-vehicle can be specialized thus enabling the transport of separate flows of passengers (e.g. international & domestic) in the same shuttle.

Flexibility & reactivity

Airval driverless system provides optimised and highly efficient system operation and failure management, as well as prompt reaction to sudden and unforeseen events.

Unrivalled quality of service

Availability increases transport efficiency

Val experience has demonstrated outstanding records in terms of safety and availability. Since 1983, more than 2 billion passengers have been transported

without any single accident caused by the system. Airval guarantees punctuality and reduced transit time

Airval: comfort and information to everyone

Airval is a comfortable, large air conditioned vehicle, perfectly suited to families, businessmen and disabled people. Furthermore, thanks to on-board Internet and multimedia passenger information, all passengers receive the latest information during transit.

« 25 year experience in driverless and 100% secure system »

Airval: 100% flexible APM with outstanding comfort and attractiveness.



Airval performances

Technical characteristics

Vehicule length	11.20 m	36'9"
Width of vehicle	2.80 m	9'2"
Train consist (cars)	1 – 6	
Number of door per car per side - width	2 – 1,95 m	2 – 6'4"
Vehicle height	3.60 m	11'10"
Nb of seats	up to 24	
CBTC or Shuttle mode ATC	✓	

Performances

Maximum operating speed	80 km/h	50 mph
Minimum horizontal curve radius	22 m	72'2"
Minimum vertical curve radius	200 m	656'2"
Maximum grade	12 %	
Superelevation	10 %	
Acceleration, service deceleration	1,3 m/s ²	0.13 g
Power distribution system	750 VDC	

Options

Passenger gangway, air conditioning, dynamic displays, multimedia

Onboard Internet, onboard CCTV, service on demand

Compatible with most existing rubber tired APM

Siemens Transportation Systems SAS is the international center of competence for fully automated metro systems and one of the world leaders in Automated Train Control systems.

Its great experience in the implementation of turnkey projects and in maintenance services effectively complements its range of expertise.

STS also carries out the marketing of all Siemens railway products and services in France.

A subsidiary of Siemens France, Siemens Transportation Systems SAS is functionally affiliated to the Transportation Systems Group of Siemens AG.

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