

## Manisa City

### Fully Automated Public Parking System



Construction year: **2016**

Employer : **Manisa Metropolitan Municipality**

Main Contractor : **Birtam İnşaat Taahhüt Ticaret A.Ş.**

Subcontractor : **Parkolay**

(Fully Automated Parking Systems Manufacturing & Implementation)

Capacity : **560 cars**

System : **Parkule 144,7 systems**

Structure : **Steel structure**

#### CAPACITY <> OPERATION

- Building footprint area: -only- A = 930 m<sup>2</sup>
  - Building elevation: H = 17.50 m
- Number of parking floors: 7 above ground, 4 underground
  - Entry-Exit & Lobby: Ground floor
    - Total parking capacity: 560
- Construction volume per parking space: 44 m<sup>3</sup>

- Minimum personnel requirements
- Ventilation and lighting savings
  - (No exhaust gas formation, no people inside the parking lot)
- High insurance availability thanks to high safety level
- Energy cost of only ₺ 4 (euro cent) per parking operation
- Ticketing system with license plate recognition
- Security cameras and tele diagnosis over the Internet

#### PERFORMANCE <> COMFORT

- 7 simultaneous parking operations, 7 independent systems
  - Entry-Exit rooms with turntables, 7 Entry-Exit rooms
    - Shortest parking time: 70 sec.
    - Longest parking time: 200 sec.
    - Average parking time: 105 sec.
- Number of consecutive parking operations in one hour: 182

- Ease of finding parking space exactly at the desired location without having to drive in heavy city traffic.
- Suitable for the use of disabled people, easy parking at the large entry room.
- Parking without manoeuvring difficulties and without using inconvenient ramps and corridors for getting to/exiting from the parking floors and for parking.
- Safe and secure parking away from risks such as theft, accidents, etc.

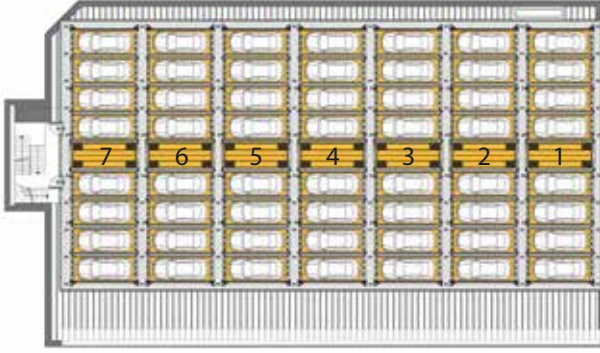
#### STANDARDS <> SAFETY

- EN 14010 - CE Certificate (CE: "European Conformity")
- 2006/42/EC Machinery Directive

#### EN 14010 Safety of machinery - Equipment for power driven parking of motor vehicles

Safety and EMC requirements for design, manufacturing, erection and commissioning stages





With a capacity of 560 cars, **Parkule 144** is the biggest fully automated parking system in Turkey. The system that allows parking for 7 cars at the same time and renders average parking operation time of 105 seconds has TÜV-SÜD approved CE and EN 14010 compliance certificates.

## Manisa, Fully Automated Public Parking System Manisa, Turkey

### Technical Specifications

Construction year	: 2016
Number of parking spaces	: 560
Number of parking floors	: 11
Parking floor area	: 930 m <sup>2</sup>
Parking area length	: 44.50 m
Parking area width	: 20.90 m
Parking system height	: 17.50 m
Parking system depth	: 9.00 m
Parking system structure volume	: 24,645 m <sup>3</sup>
Construction volume per parking space:	44 m <sup>3</sup>

### Access Times (Approx.)

Times for consecutive parking operations in Automatic Operation mode:  
(Time of vehicle delivery by driver is assumed as 45 sec.)

Shortest parking time	: 75 sec.
Longest parking time	: 200 sec.
Average parking time	: 105 sec.
Number of simultaneous parking operations	: 7

### Vehicle dimensions (Maximum)

Length	: 5.25 m
Width	: 2.30 m
Height	: 1.60 m (364 Parking Spaces)
	: 2.00 m (196 Parking Spaces)
Weight	: 2.5 t

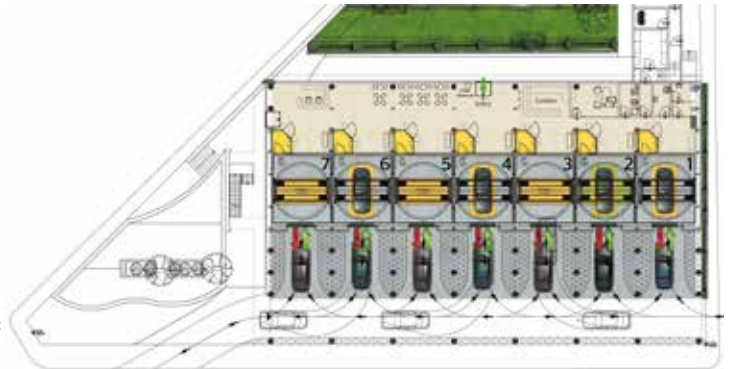
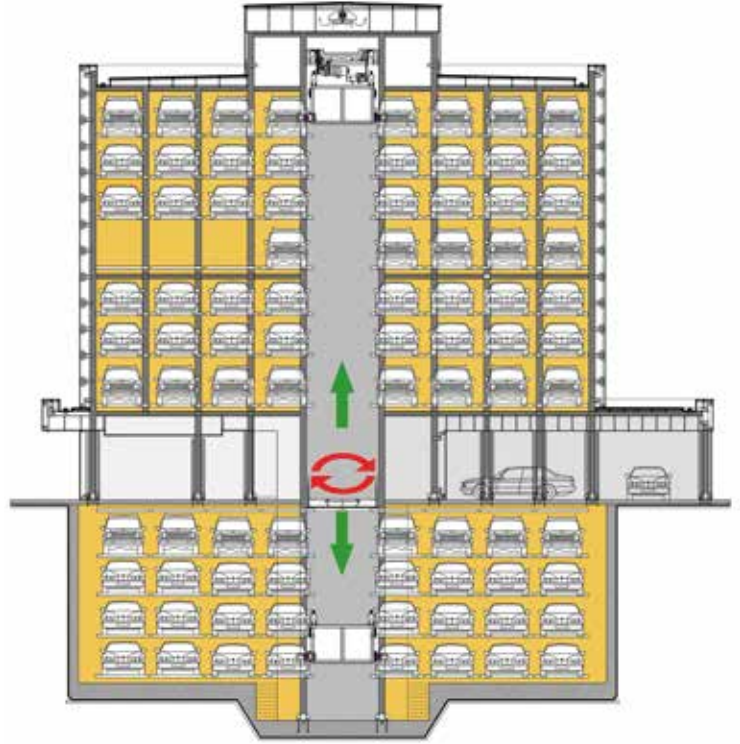
System Type: Fully automated parking system

Model : **Parkule 144**

Technology : Dynamic position-controlled lift, quick pallet transfer conveyor system

Software : PCS 2.0

Standart : TS EN 14010



**\*(Options that suit different vehicle dimensions and construction conditions are available.)**