IdealPark

Project report: Lagoon parking in Venice

Place of installation:
Island of Tronchetto, Venice - Italy

Building company:
Cesi S.c.r.l. - Imola - Italy

Supply: IdealPark, Verona - Italy
27 parking systems series IP1-ML

Project report N° 07/2010

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Island of Tronchetto, Venice – Italy
Realization of a mechanical parking below sea level

The goal of this construction was the realization of 100 garages destined to accommodate cars of large dimensions and has been realized on the new island of Tronchetto of Venice, in the underground level of a modernly designed large directional complex in red fire-bricks.
The Island of Tronchetto is an artificial island of the Venetian Lagoon in the western extremity of Venice connected to the city. It has been created in the 1960s through the drainage of landfills and is currently in use as road network terminal.

In the city of Venice this project directly represents the only example of private garages reachable from the mainland.
In order to optimize the spaces as well as the investment while satisfying the customers who had expressed the necessity to park a second car, boxes with heights over 4 meters have been equipped with mechanical parking systems series IP1-ML.

With the aim of supplying a better service to the final customer, IdealPark has, in agreement with the investor and the company Cesi S.c.r.l situated in Imola, directly cured the installation and the positioning of every system. The chosen technology is a mechanical parking system with dependent car removal which doubles car space and is equipped with only one lateral column to thus render the opening of the driver's door easy and comfortable while leaving the rest of the box free.

For the installation of these systems it has not been necessary to carry out diggings or building works. Every structure was simply fixed to the floor and connected to an electric plug. The system works in fact with 220 V power supply and involves a power consumption of only 1.5 kW.

The reliability of the system is guaranteed by a mechanical safety inserted during the elevation of the platform, blocking it until the customer does not unblock the handle. In this way it is impossible for the platform to come down accidentally.

Besides it being an optimal system to park two cars in only one box, a IP-ML is a formidable burglar alarm as only the owners of the commando key can put the vehicles in motion.
The minimum required height of the garage for the installation of a system IP1-ML is 320 cm.

On the island of Tronchetto we find car parks, a tourist terminal and public transport offices. Moreover, from here ferry-boat connections for Lido of Venice leave.

Sight of the directional building on the sea under which 100 garages are situated.

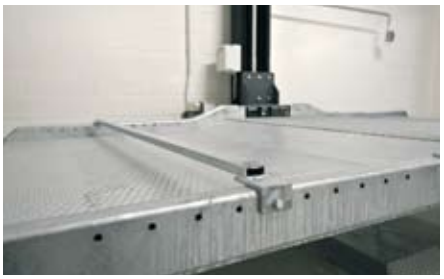
Inner sight of various dimensions boxes equipped with motorized roll-up shutters in the garage.

Inner sight of a garage that has the IP1-ML system installed with lowered platform. The column can be realized on the right or left side. The height under the platform is adjustable from 155 cm to 200 cm in order to park any type of car.

The use of the system is simple and comfortable: the user inserts the codified key in the control panel and raises or lowers the platform.

Car parking on the platform. The system elevates cars until a maximum of 2.500 kg. The measures in length and width of the platform can be altered to also allow the parking of motorcycles.

System elevated for the parking of the second car under the platform. The platform is 80 cm longer than normal parking systems. It is therefore simpler to park and the car below remains more protected.



On the platform there is a wheel stop device which can be adjusted to fit the type of cars to park. The protection of the lower car is also guaranteed by a drainage channel on the platform that collects and laterally disposes of eventual oils or liquids from the upper car.

A mechanical block assures the platform in raised position also in case of pressure drop of the hydraulic system. In order to lower the platform it is necessary to unlock the mechanical block through the manual lever first.

Marshals Palace, home office of the Higher Council of the Magistracy, San Martino della Battaglia Rome - Italy Extension of the garage capacity through the installation of mechanical parking systems.

The Palace which today hosts the offices of the Higher Council of the Magistracy was originally created as head office for the Marshals of Italy. It was built in the incredible space of months between 1937 and 1938 on the place of an existing building at the corner of Piazza Independenza with Via San Martino della Battaglia in Rome. On February 15th1962 the Higher Council of the Magistracy assumed office in the Palace and it became one of the centres of maximum prestige of the judicial Order.

Under the courtyards of the famous Palace of the Marshals two distinguished garages for the official cars of the authorities have been constructed. The access to the underground level is granted through a car elevator manufactured by IdealPark, planned with a capacity of 3.500 kg for the transport of the armored cars.

In order to increase the capacity of the underground garages, building company Barbieri Nardone of Rome has installed 10 parking systems series IP1-ML. Systems have been positioned next to each other in order to take up the minimum space required while in the meantime guarantee comfort and user-friendliness to all users. This installation has allowed to go from 20 to 30 car spaces.

Palace of the Marshals now home office of Higher Council of the Magistracy organ of government and discipline of the judicial Order.

Façade of the building in stone spur and travertine in simple lines but with decorative features such as infantrymen and eagles to the windows.

Sight of the courtyard of the Palace. On this side of the building a statue of Julio Cesar is situated as well as the car lift for the transfer of cars from street level to the underground garages.

Sight of the garage basement. To avoid disturbing sights of electrical canalizations, the power supply of every single system has been realized through descents from the ceiling and the control panel has been installed directly on the column.

Sight of the systems without cars. The columns have been installed one on the right and one on the left to leave the space between the two systems free.

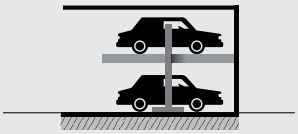
The system is suitable also for installations in series as the base of the plant is crossable and it can be fitted to the floor.

All the systems have been equipped with an emergency photo electric sensor and with a device allowing use of the systems also in case of electric power fall out.

System IP1-ML does not have lifting ropes or chains and practically does not need maintenance.

IdealPark car lift Mod. IP1-HMT V04 for the transport of the cars from the road to the underground garages. The system has been designed with special capacity of 3.500 kg suitable for the weight of the armored cars.

IP1-ML / Technical data



System name	IP1-ML
System lenght	4,40 m
System width	2,60 m
Platform length	4,20 m
Platform width	2,00 m
Max. column height	3,50 m
Max. height under platform	2,00 m
Weight	1,45 t
Load capacity	2.500 kg
Power consumption	1.5 kW
Power supply	220 V

Variants
Wall control panel
Floor embedded base
Column on right or left side

Options
Manual pump
Photo electric sensor to prevent platform lowering when a car is parked underneath
Electro-mechanical safety block