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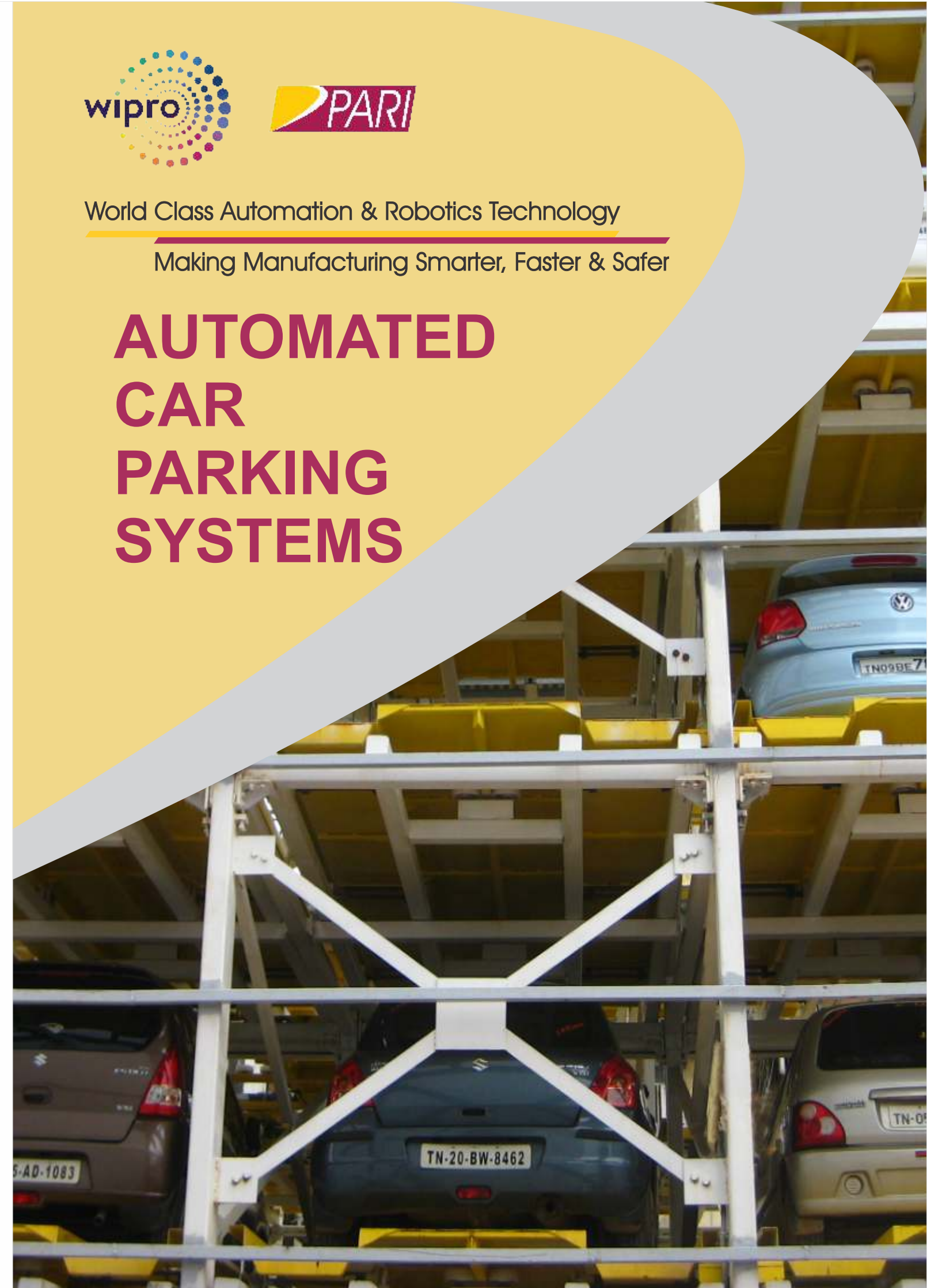
Turkiye (Bursa)



World Class Automation & Robotics Technology

Making Manufacturing Smarter, Faster & Safer

AUTOMATED CAR PARKING SYSTEMS



WIPRO PARI's Experience in Automation Industry

WIPRO PARI...Making Manufacturing Smarter, Faster, and Safer...

WIPRO PARI, WIPRO PARI PRIVATE LIMITED, has over 31 years experience in delivering world class automated solutions. With over 1800 installations worldwide and an entire range of advanced automation solutions, WIPRO PARI has formed an in depth base of expertise that gives them the ability to meet the most intricate manufacturing requirements.

This solid engineering strength enables WIPRO PARI to provide complete turnkey solutions from conceptualizing, designing, manufacturing, implementing and supporting advanced factory automation systems.

Introduction of the Metropolitan Parking System

WIPRO PARI's Metropolitan Parking System has an integrated car parking solution including design, manufacturing, installation, operation and maintenance.

- Providing total consulting such as demand forecasts, recommendation of a desirable parking system.
- Customized application suitable for various types of landscapes and buildings.
- Structures available below or/ and above the ground.
- Reducing management cost through precise control and low power consumption.

WIPRO PARI will be leading the development of automated parking system and service in India by successfully providing customized solutions.

Client

- Provides the optimal solution which is suitable to any shapes of landscape and types of building.
- Covers a full range of automated car parking solution from non-pallet and pallet system to conventional parking system with over 31 years of experiences.

Enhanced system

- Cost effective system that allow optimal use of space and provide maximum convenience through short access time, short waiting periods and high turnover.
- Covers large vehicles such as SUV.

Safety

- Self-monitoring system for the prevention of operation faults.
- Total maintenance service including the fastest emergency on-site support.

Revenue

The application of WIPRO PARI Parking Systems adds value to any development project by

- Lowering the overall development costs.
- Lowering the overall operation costs.

WIPRO PARI will lead the way in achieving quality and value of parking facilities.

WIPRO PARI 's Metropolitan Parking System is undergoing various consultation activities in order to develop parking facility markets throughout the world, such as in Europe, Southeast Asia, US and Turkey, etc. We are soon to advance into international market through diverse channels, such as technological affiliation with local companies and installation of agencies, etc.

WIPRO PARI provides the ultimate solution to metropolitan parking problems with safety,



Advantages of the System



Savings

- Designed & manufactured in India makes the system cost effective.
- Save costly land area.
- Save on maintenance.
- Shorter construction period.



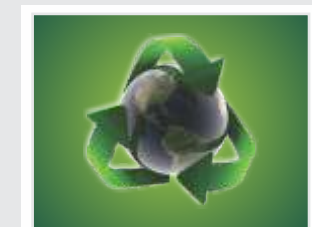
Time

- Storage and retrieval time less than 90 secs.
- No need to search for cars.
- No need to waste time searching for empty car slots to park the car.



Aesthetics

- Attractive modular designs.
- System can be above the ground, below the ground or both.



Eco Friendly

- No air pollution as engines are shut down while transferring the car in the system.
- No noise pollution.
- General energy savings.



Safety

- Theft, vandalism or accidental damage eliminated.
- No danger of violence or robbery to the driver.



Introduction to each Type of Systems

The WIPRO PARI's Parking System can either be installed underground or outdoors. It is usually appropriate for large parking systems. Approximately 60 to 70 cars can be accommodated per lift. The capacity can be adjusted according to the number of levels and rows. The multi-parking system is classified according to the type of lifting method applied, as follows: transverse type, longitudinal type, hydraulic type and wire rope type. It can also be categorized into the built-in turntable and external turntable type. The built-in turntable is located inside the lift while the external turntable is located at the entry area.

2 Step Stacker Type Parking System

This system features a pallet that is lifted up and then after the car is loaded. Thus additional parking can be made available in the space below the loaded pallet. Both indoor and outdoor installation is possible. Installation can be done on simply flat area with no additional architectural work. These systems are electromechanically or hydraulically operated. Preferably these systems are valet parking systems. We have specially designed PIT Stacker Parking also. Suitable for Indoor & Outdoor installations. Mostly preferred in residential complexes, IT Parks and Hotels.



Puzzle Type Parking System

This system features combination pallets carrying cars. Individually load and unload of the cars is possible. Thus system is independent system. This system is electromechanically operated. Fast IN & OUT of the cars is possible. Easy maneuvers of the cars. Combination of multiple levels vertically & horizontally is possible. We have specially designed PIT type Puzzle parking system also. Suitable for Indoor & Outdoor installations. Mostly preferred in residential complexes, IT Parks commercial complexes, malls, hotels etc.

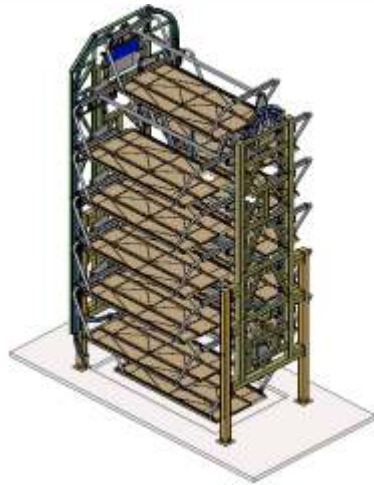
MULTI LEVEL PARKING SYSTEMS.

These systems are fully automated car parking systems. These are based on steel structure or RCC structure also. These are all custom designed as per the requirements of the projects. These systems are preferably designed for public parking, private commercial parking. This systems preferably installed in the enclosed condition. Apart from WIPRO PARI standards access to the system will be always designed inline with the requirement of the project and request of the client. System communication media will be totally custom made.

TOWER – SQUARE Type Parking System

This system features a lift which is electromechanically operated. At the loading point as per the design the lift shall receive the car and then travels to the respective location of the parking slot. It parks the car to the parking slot. This system can design with pallet or without pallet. This system is preferable for 30 to 40 cars. At three cars space, effective utilization of space and height.





TOWER- ROTARY Type Parking System

This system features a rotary mechanism that allows the system and all the cars travel in rotary motion. With this motions the load, unload cycle is possible. This system is preferable for 8 to 12 cars. At 2 cars space, effective utilization of space and height.

CART Type Parking System

This system has multiple entry and exits as per the project design. This system has inbuilt mechanism called CART which moved every Parking floor. The nos. depends on total nos. of floors and total nos. of cars. This system can be pallet based or without pallet also. Preferably these system can be used in longitudinal parking areas. System can be designed for 50 to 100 cars or even more.

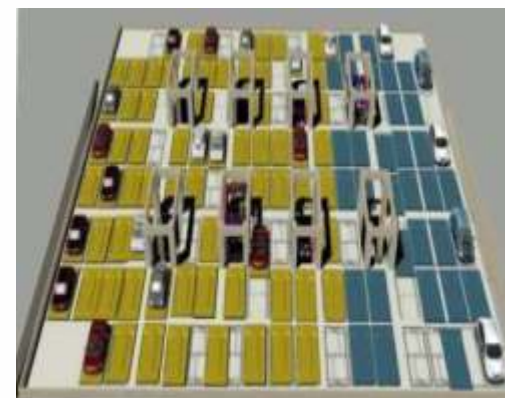


Stacker Type Parking System

This system features a typical storage system. System has unique mechanism called Stacker. It moves centrally and it has parking slots on its either sides. It has inbuilt robotic mechanism that pulls and pushed the car to and from the lift/parking bay. The nos. of stackers cranes depends on The total nos. of cars and the total nos. of floors. Preferably this system can be used in longitudinal parking areas. System can be designed for 100 to 300 cars or even more also..

CHESS Type Parking System

This system is a revolutionary type of system in the parking systems. With this system maximum utilization of the floor space is possible. NO drive way, no space for movement of mechanisms. This has floor mounted roller bed system which can allow the crisscross movement of the pallet and the car. This system preferably installed on RCC floors. System can be designed for from 800 to 1000 cars or even more also. It has separate lifts which acts as ENTRY & EXIT points. These systems can be used in longitudinal & square of parking areas also.



PARI Value Proposition in Car Parking

Technological Expertise

- Strong expertise and references in automotive field,
- Dozens of years proven systems track record,
- Precision and high speed vehicle conveyance and transport systems (Palletized transport, turn tables, lifters, shuttles) for automotive industry,
- Expat experts with international experience in MLPS.

Local Engineering Strength

- Mechatronic system of industrial grade reliability,
- Value Engineering for optimal local performance,
- Customization for best utilization of site features,
- Control systems and software for mission critical applications.

Local Business Infrastructure

- Competent technical support all over INDIA,
- Large project management and administration track records.

Features of the System

Space Optimization

- Accommodates 20 to 40 cars in a space otherwise occupied by two cars in conventional garages.
- Easily accommodates all types of cars and SUVs.

Cost-Effectiveness

- Compact structure. • Low cost of ownership.

Convenience

- Fast retrieval system of around 90 seconds per car. • Control software compatible with any permit or pay system. • Simple, user friendly, safe, paying and retrieval process prevents damage to vehicles.
- Friendly reorientation of cars for driving in and out.

Security

- Minimal manual intervention eliminating theft or vandalism.
- Coded swipe cards ensuring infallible security.

Aesthetics

- Modular construction. • Impressive standalone steel structure and facade.
- Use of facade for branding creates opportunity for revenue generation.
- State-of-art technology. • Failsafe palletless system.

Environmental Protection

- Reduced vehicle emissions. • General energy savings.

Low Maintenance And Operational Cost

Operating cost is low since mechanical car parking systems requires less energy to run. There is no need for energy intensive ventilating systems as the cars are not being driven inside the parking lot. Cladding can be specially selected to match the building's facade.

Safety of Vehicle

MLCPS provide complete safety to a vehicle as parked cars are not accessible to anyone else. Damages or a dent to the car is avoided while parking through narrow drive ways.