



ARAPL
"globalising automation"

One Stop Parking Solutions

Multilevel Car Parking Systems



Parking does not need
More Space.

But

More Intelligence.





About ARAPL

Affordable Robotic and Automation Ltd is one of the leaders in the field of automation especially in automotive industry for Body-in-White lines (welding), press automation, final assembly lines & Automated Multi level Car Parking Systems.

Established: 2005

Work Space: 120,000 Sqft. (4 acre)

Employees: 250+

ARAPL has its own :

- Engineering & Design Team.
- Controls & Automation Team.
- Robotic Application Team.
- Training Facilities.
- Assembly Facilities
- Quality and Certification Team
- Spares & Service Support

Our Products



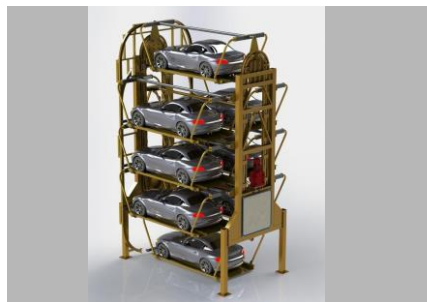
Stack Parking System
(Motorized/Hydraulic)



Puzzle Parking System
(Over ground/Pit)



Tower Parking System /
Puzzle Tower Parking
System



Mini Rotary
Parking System



Horizontal
Circulation
Parking System



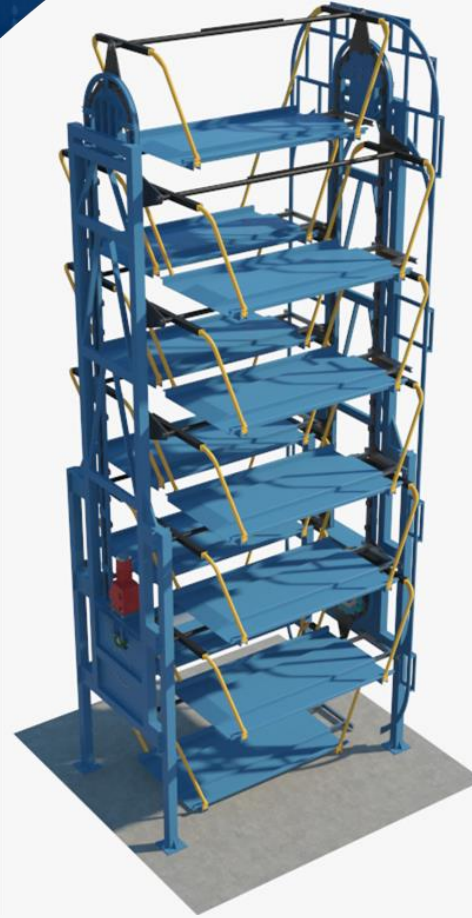
Chess Parking
System



Car Hoist

Key Features

- Protection of vehicles against theft, damage and weather
- Modular construction and the ability to quickly add new capacity
- Maximum space saving
- Possible relocation and re-installation
- Suitable for all vehicles
- Quiet operation
- Stand-alone structures
- Low power consumption
- Easy to operate
- Low running costs
- High endurance
- Long lifetime



1. Rotary Parking System

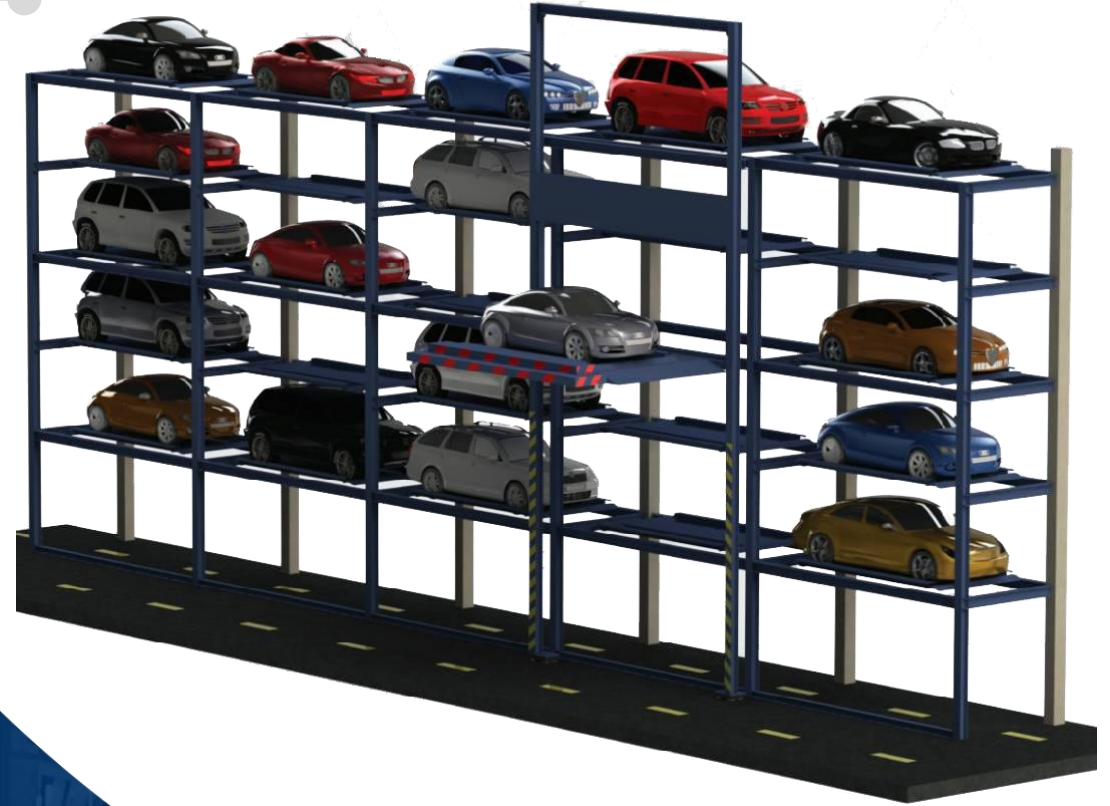


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2. Alley Parking System

Key Features

- Available 2 levels & up
- Conveniently parks cars
- Driveway remains clear
- Typically installed in a driveway next to compound wall/building structure
- Drives straight in- straight out, no maneuvering required.
- Safety sensors
- Parking guidance
- Emergency stop switch



Key Features

Fully automated & independent system featuring combination pallets enabling horizontal and vertical movement of parking spots to park and retrieve cars.

- Easily configured and customised to any property.
- Multiple entries to reduce time
- Easy maintenance
- Individual hydraulic power pack
- Low operating costs
- Variation available from 4 to 8 levels



3. Pit Puzzle Parking System

4. Over Ground Puzzle Parking



Key Features

- High fluency, longer life
- Independent parking
- Sliding Mechanism
- Built-in drop-protection
- Emergency stop push button
- Cost-effective & low maintenance.
- Fast & Energy efficient.
- Tailored to suit most buildings, above ground.
- Undercover and secure means of parking
- Space effective

Key Features

- Available in options of 6/8/10/12 Bikes/Pallet & 6/8/10/12 Pallets/System
- Quiet operation – low noise levels in comparison to any other type of parking system.
- Rotates clockwise/anti-clockwise hence saves time
- Effective utilization of space
- Less operating cost
- Low power consumption



5. Two Wheeler Rotary Parking System

6. Motorized Stack Parking System

Key Features

Designed with an aim to double the parking space above ground or for basement car parking. Stack

Parking is the best parking solution to save space to fit more cars in a limited space

- Fits all passenger cars up to 2.5 tons
- One global quality
- Lowest operation cost
- Can be easily customized
- Space-effective installation
- Easy maintenance





Key Features

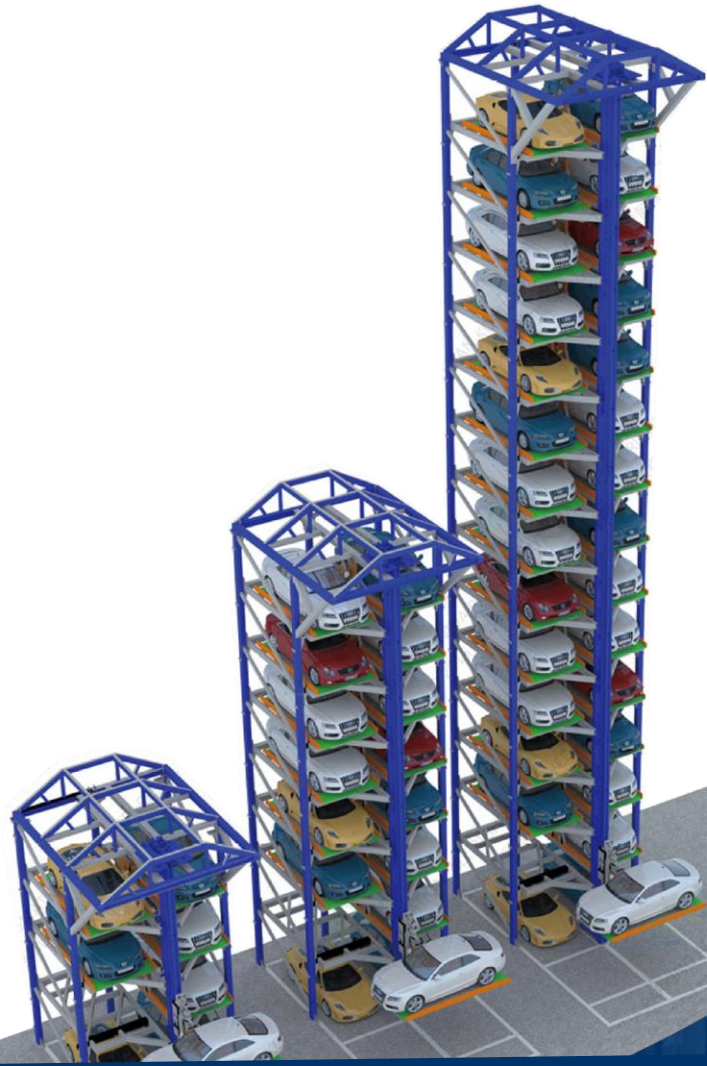
- They are engineered to lift motor vehicles for parking purposes
- Also suitable for car dealers to use as a showcase
- Multi-channel safety protection
- Multiple units can be linked via sharing the common column

7. Hydraulic Stack Parking System



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8. Tower Car Parking System



Key Features

- Fast and automatic retrieval of cars from the parking
- One slot left for movement of ground-level platforms
- Low noise levels
- Built-in turntable at entry & exit point
- Sliding Mechanism
- Monitored for smooth and error-free automation
- Electromagnetic safety locks
- Fully automatic integrated operation
- Emergency Shutdown switch for safety



Key Features

- Combining the principle of the vertical movement of a lift and horizontal movement of a conveyor, cars on the pallets in rows can move in and out of the building.
- Efficient utilization of underground spaces
- Parking space required per car is one third of that required in conventional manual parking
- Time required to park/retrieve is approximately 3 to 4 minutes



9. Horizontal Circulation Car Parking System



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10. Chess Type Car Parking System

Key Features

- Ensures maximum utilization of the floor space without the need of driveways, and space for movement of mechanisms
- Floor mounted roller bed system which allows the crisscross movement of the pallet and the car.
- It has separate lifts which act as entry & exit points
- It can be designed for 800 to 1000 cars or even more and can be used in longitudinal & square areas.





Key Features

Shuttle Parking is a blend of vertical lifts, and horizontal shuttles that operate together to ensure fast access in parking lots with high capacity. They operate on multiple levels; overground, underground or a combination of both.

- Economical - Efficient space utilization in basement parking lot
- User safety and comfort oriented design
- Variation available up to 4 level
- Fully automatic operation

11. Shuttle Type Car Parking System

12. Car Hoist System/Car Lift



Key Features

- Repairs become cheaper
- Provides easy access to modify your prized possessions.
- Inspections tend to be a lot simpler.
- Increase the space in your garage.
- Gives a safer alternative to single-posts, pits and jacks.
- Ideal for home garage as well as car shop display.



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Key Features

- The AGV Parking System is installed in an enclosed parking vault.
- Battery-operated robotic device.
- Loading Zone: Entry/exit area where users leave/retrieve vehicles.
- Manages automated storage and retrieval of vehicles.
- Vehicle Storage Tray handled by AGV to transfer vehicle to/from storage vault.
- Tray Accumulator:
Stacks Trays to maximise storage.



13. Robotic(AGV Based) Car Parking System



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Our USP

- Smart Card Based (optional)
- Noise less transmission system
- Multi locational Strong team of 250+ engineers & technicians
- In house dedicated design team
- RFID system for automatic opening of door during parking
- Android based system to Park or Retrieve cars
- German make motor for lift – Bonfiglioli / Siemens
- Japanese make PLC/HMI – Mitsubishi
- Car Washing Option can be embedded with tower
- Artificial Intelligence – for intimating predictive and preventive maintenance
- Remote operations and maintenance to reduce downtime



100 Cars Puzzle at Vizag for GVSCCL



546 Cars Puzzle at Trivandrum Smart City



Proposed Multi Level Car Parking at AAI Complex, Delhi Airport

One Stop Parking Solutions

Multilevel Car Parking Systems



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