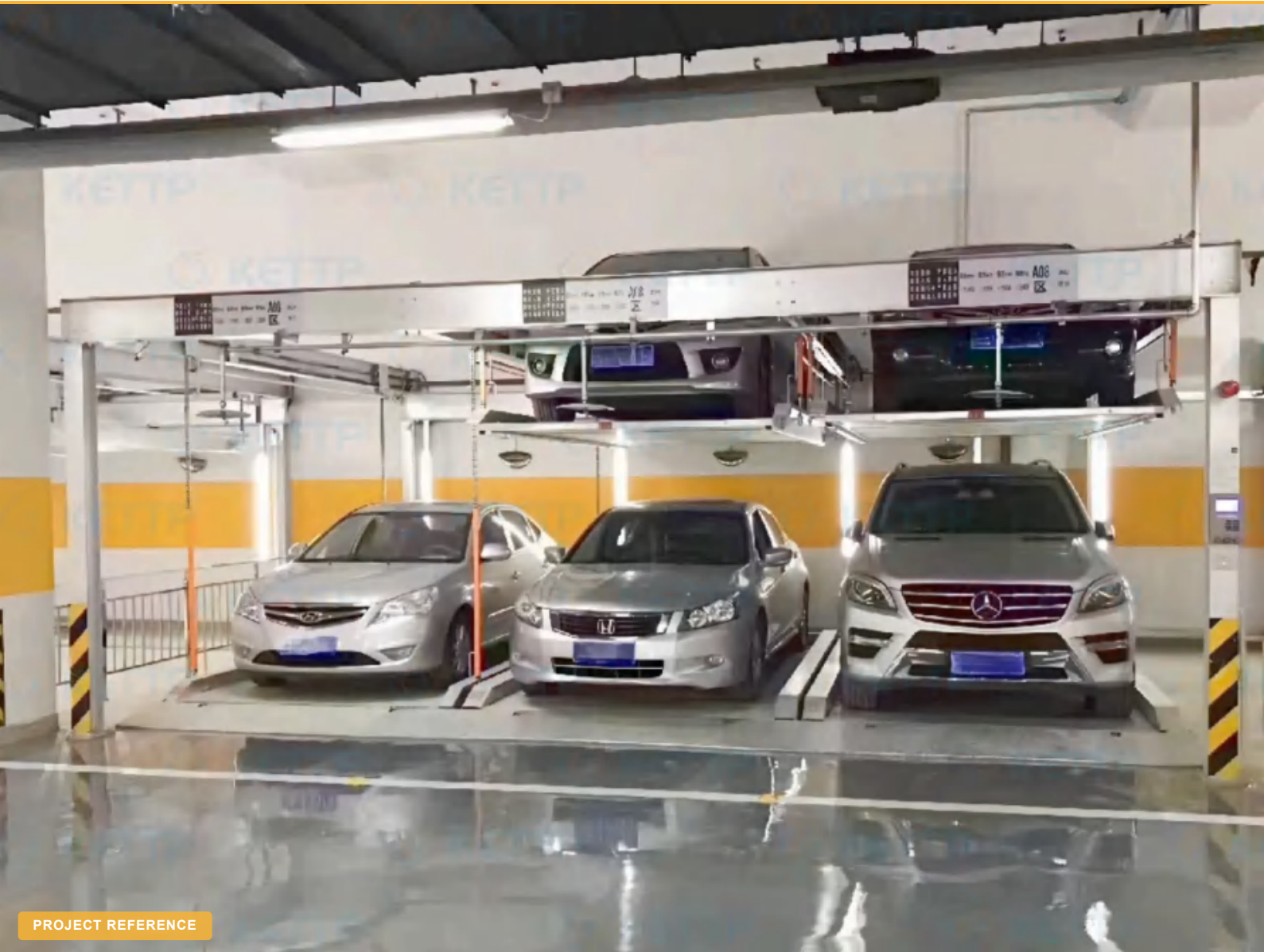




PRODUCT IMAGE



PROJECT REFERENCE

2P PUZZLE PARKING SYSTEMS

2-Level Puzzle Parking System

The simplest lift-and-slide semi-automated configuration: one ground-level sliding row and one upper lifting row double the capacity of any bay without requiring independent access driveways for every space. Omron PLC manages the shuffle sequence automatically — the user selects a bay number and the system delivers the vehicle to the exit position without manual intervention.

KEY FEATURES

- 100% independent vehicle access: retrieve any car without moving others
- Omron PLC auto-shuffle: select bay number, system delivers car to exit automatically
- Safety sensors confirm platform position, obstruction detection and door interlock
- 2-level lift-and-slide: doubles capacity with minimum structural height
- Modular bay design: expand from 6 to 60+ bays on the same control platform
- Motor + roller chain drive: no hydraulic fluid, minimal maintenance
- Entry gate with photocell barrier and vehicle dimension detection optional
- CE certified; ideal for apartment basement car parks and commercial garages

TECHNICAL SPECIFICATIONS

Levels	2 (1 ground sliding + 1 upper lifting)
Access	100% Independent — any car, any time
Capacity	Doubles base footprint car count
Drive System	Electric Motor + Roller Chain
Control System	Omron PLC
Position Sensors	Length, Width, Height, Obstruction
Bay Expansion	Modular — unlimited
Vehicle Retrieval Time	60–90 seconds
Gate Safety	Photocell barrier + dimension sensor
Control Voltage	24V DC
Power Supply	3-phase 380V AC
Certification	CE Marked

DIMENSION DRAWING

