



SKYPARKS ROBOTIC PARKING SYSTEM (SRPS) FAQs

GENERAL INFORMATION

WHAT IS THE SKYPARKS ROBOTIC PARKING SYSTEM?

The Skyparks Robotic Parking System (SRPS) is a unique automatic parking system developed by specialists at Skyparks. It is unique because it's the only system on the market that uses autonomous robots and lifts to park and retrieve cars.

Robots collect and retrieve cars then move them horizontally in each parking level. Lifts then move the cars and robots vertically.

WHAT ARE THE ADVANTAGES OF USING ROBOTS TO PARK AND RETRIEVE CARS?

In short: speed, efficiency, redundancy.

Parking and retrieval is speedy as robots operate autonomously; for example, if there are three in a system, all three can park and retrieve cars simultaneously. This also helps in terms of efficiency and redundancy – if a robot is taken out of service for maintenance or repair, the system can continue to operate.

WHAT ARE THE OVERALL ADVANTAGES OF THE SKYPARKS ROBOTIC PARKING SYSTEM?

Maximising land use

Using robots and lifts removes the need for ramps and lanes required by conventional car parks, so cars can be parked in a greatly reduced volume of space.

This means that land use can be maximised: space that might have been required for a conventional car parking solution can now serve a different purpose – for instance for retail or residential use.

Improved security

Security is improved for both cars and drivers. Cars are dropped off and collected at a secure waiting area – so cars are not accessible to anyone else, and drivers do not need to walk through a car park in order to retrieve them.

Environmentally friendly

The Skyparks Robotic Parking System is environmentally friendly in its compact design, and as the cars are not running when parked, it helps to reduce emissions. It also has advantages over conventional solutions in that it integrates well with existing infrastructure, and will blend sympathetically with historical developments.

WHO IS THE SKYPARKS ROBOTIC PARKING SYSTEM FOR?

The Skyparks Robotic Parking System is suitable for both public and private use; it can be designed to accommodate any number of cars, depending on the space available.

DRIVER QUESTIONS

HOW DO I PARK MY CAR?

It's very straightforward. You simply drive into a parking module, which is like a contained parking space.

Positioning sensors will even help you park, showing 'Left-Right-Forward-Stop-Reverse' instructions to get you in the right position.

You then leave the module, the outer door is shut and you'll be issued a ticket from a machine. Before the door is shut, sensors will check there is no-one left behind in the module.

IS MY CAR SAFE IN THE CAR PARK?

Yes. The SRPS offers total security against theft and vandalism as no one can gain unauthorised access to the parked cars.

HOW DO I GET MY CAR BACK?

Once you have paid, your ticket will be returned and the ticket machine informs the SRPS to retrieve your car. An information screen will tell you how long this will take and where to collect your car.

WHAT IF I LOSE MY TICKET?

There will always be someone on hand to help. Typically, when the car enters the module it is photographed by a still video and the photo is stored in the system's PC. So even if you lose your ticket, the car can be easily identified and retrieved.

HOW LONG DOES IT TAKE TO GET MY CAR BACK?

It depends on how busy the car park is but on average it would take approximately 2.5 minutes. Compare this with the time taken to find your car in a conventional car park, navigate the parking station, and possible queuing to exit.

WHAT HAPPENS IF I LEAVE SOMETHING IN THE CAR?

You inform the car park operator that you have left something in the car and the operator will retrieve the car for you: You do not pay for the parking to retrieve the car. Once you have collected whatever it was you left in the car, the operator will re-park your car for you.

DO I LOCK MY CAR AFTER I HAVE PARKED IT?

There is no need to lock your car as no one can gain unauthorised access to the parked cars. However, you may lock it if you wish to.

DO I HAVE TO REVERSE MY CAR WHEN I COLLECT IT?

Not necessarily. The SRPS can incorporate turntables or drive through modules into the system, so you don't need to reverse out.

IF THERE IS A POWER CUT CAN I STILL GET MY CAR OUT?

Yes. A backup generator is usually installed that will continue to retrieve cars in the event of a power cut.

WHAT HAPPENS IF A ROBOT BREAKS DOWN?

The robot will be taken out of service until it is repaired and in the mean time one of the other robots will retrieve your car.

CAN I PARK MY 4X4 CAR IN AN SRPS SYSTEM?

Yes. There will be certain levels of the car park reserved for high cars. And as the SRPS has a 3 tonne capacity, unlike most systems that only have a 2.5 tonne capacity, SUVs can be parked in the system.

CAN I CALL MY CAR FROM MY OFFICE OR APARTMENT?

If the car park operator allows you to do this then it is possible for the SRPS to start the retrieval process remotely.

IN A RESIDENTIAL SRPS DO I OWN THE CAR SPACE OR IS MY CAR PARKED RANDOMLY?

Usually the car is parked randomly but a space is designated for your sole use.

BUILD AND COST

DOES A SRPS HAVE TO BE BUILT ABOVE GROUND?

No. SRPS can be built above or below ground, or a combination of the two.

HOW IS A SRPS BUILT?

The structure for a SRPS is usually a very simple lattice type steel structure. It can be standalone, or integrated with either an adjoining building, the concrete foundations of a building.

A typical build flow chart is included at the end of this document.

WHAT DOES THE FAÇADE OF A SRPS LOOK LIKE?

It can look like anything you want it to. As the structure of a SRPS is a simple lattice type steel structure most types of façade can be attached to it.

HOW MUCH DOES A SRPS COST?

This can vary greatly depending in site requirements. Talk to us about your specific requirements and we'll cost the project out.

HOW DO I KNOW THE CAR PARK WILL BE THE RIGHT SIZE AND SUPPLY THE RIGHT FUNCTIONALITY?

Skyparks Logic Software, part of the Skyparks package, is designed to optimise car park design and can predict important information on queuing times, retrieval times, etc. This is essential in preventing a negative impact on a development and/or the surrounding road network.

HOW MANY CARS CAN BE PARKED IN AN SRPS SYSTEM?

Our current systems hold between 58 cars (1 robot and 1 lift) and of 610 cars (12 robots and 8 lifts), however there is no minimum or maximum size to the system (within the limits of the space available) – we can build to your requirements.



MANAGEMENT AND MAINTENANCE

HOW IS THE SRPS MANAGED?

The SRPS is controlled and monitored by software known as the Skyparks Control System (SCS), which can be tailored to run any car park.

IS SOFTWARE PROVIDED AS PART OF THE CAR PARK SYSTEM?

Yes. The operator of the car park will be granted a licence for Skyparks Control System.

HOW IS AN SRPS MAINTAINED?

Skyparks can offer maintenance contracts, software upgrades and through life support as part of our service.

SKYPARKS BUILDING DESIGN PROCESS

