



ROBOTIC PARKING SYSTEMS – SAFE, SECURE AND RELIABLE

SAFE AND SECURE

Twenty-five percent of rapes take place in a parking garage or public area according to statistics from the US Department of Justice and the FBI. Over 40% of sexual assaults by strangers occur in garages. (Reference *The Garage of the Future Must be Green* by Samuel Schwartz, P.E.)



A Robotic Parking System virtually eliminates personal exposure to violent crime since the public is limited to only the well lit entry / exit terminals and lobby level. Users of the facility just drive into

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the entry terminal, get out and lock the car. The automated system does the parking. This increases safety, reduces the risk of injury as well as potential accidents.

Even the vehicles themselves benefit from Robotic Parking Systems. Cars are transported free of touch on separate pallets. They are stored in a fully enclosed building, safe from access and protected from the weather.



The typical car park damage, such as theft, vandalism, dents, dings on paint and bodywork damages become a thing of the past. And, as an additional factor, this helps keep insurance costs down.



The security system of the facility includes Closed Circuit TV to monitor entry / exit areas, the lobby and inside the garage. High resolution digital IP cameras take two photos of each car on entry

and two photos on exit to record the condition of every vehicle. These photos are stored on the computer system and can be used against fraudulent claims.

SOLID AND RELIABLE

A technology audit on Robotic Parking Systems' 800 space garage performed by Zühlke (a well known, international firm) concludes:

- System is very solidly designed with lots of redundancy.
- Operational safety two fold on each logical level: software and hardware.
- Complete data tracking and storage including video from inside and outside of garage.
- Car always stays on the same pallet.
- Absolute position checks/recalibration at each parking slot with laser reflectors and barcode: Accuracy 1 to 3 mm.



USERS COMMENT ON THE ROBOTIC PARKING SYSTEM

...the robotic car park is safe, quick and convenient."

"The car returns undamaged every day rather than being marked by other cars in the car parks."

"100% secure."

"No need to drive up and down ramps. Reduces time in searching for parking..."

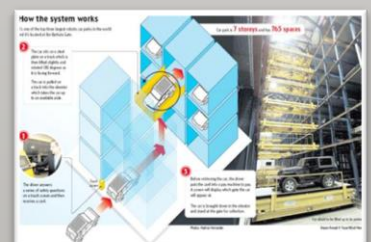
"It's fast – about 2-3 minutes (to retrieve car)"

"Everything is great. Easy to use and convenient."

"It is well secured and lighted."

"It works like a dream."

10 SIMPLE STEPS SHOW HOW IT WORKS



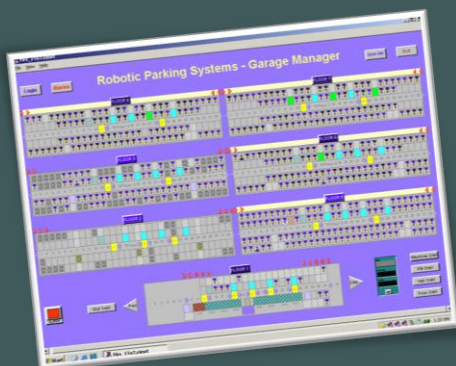
[Check out our blog and brochure that shows you how a Robotic Parking System works in 10 simple steps.](#)

- Laser based car size/position measurement and motion detection inside the garage: Car can only be parked if all sensors say everything is ok and within limits.



- GE Fanuc servo motors move the vehicles at speeds up to 2 meters per second, positioning them with 1 to 3 mm accuracy.

- Retrieval time is 60 - 150 seconds on average per EES [entry / exit station]
- Full redundancy by at least two identical machines per geographical area.
- Hot swappable PC system [two synchronized but independent fault tolerant servers with 99.999% guaranteed uptime], supported by UPS and generator.
- Highly redundant, cleverly designed system with good traceability.
- Mature, extensible system: over 15 years of experience with system design, installation and operations.
- Preventative maintenance: Every component is monitored and recorded and when certain thresholds of usage are approached, maintenance / replacement is flagged on a separate diagnostics screen.



- Main software based on Cimplicity® from GE and the Tracker Module (GE) which provides the basic infrastructure for the tracking and routing of signals and events.

- Software automatically blocks the moving corridor of a pallet mover, analogous to a railway system, in order to avoid collisions.



CONTACT US

Call us today for more information on how Robotic Parking Systems can help you create space for design, green space, or more revenue.

ROBOTIC PARKING SYSTEMS

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