

UPARKIT Specific Terminology

1. What is a “Cell” that UPARKIT mentions in the promotional material?

A Cell is the steel frame, in which a vehicle sits to either; be parked for the duration of its stay, the entry point into the UPARKIT system or exit bay for patrons that allows for the easy transition involved with parking a vehicle. Therefore not every cell may be a parking space.

2. Who is “UPARKIT North America Inc.”?

UPARKIT is the green generation in parking solutions which has rapidly gained international attention. Uparkit North America Inc. is the company which is taking this technology to market in North America and is the parent organization that owns the UPARKIT brand. All contracts to purchase and install the UPARKIT system are signed between UPARKIT NA and the Client.

3. What is the Traverser?

The Traverser is the unique central lift mechanism that utilizes the latest in electromechanical technology, together with the latest technology in sensors, to park and retrieve a vehicle in the UPARKIT system.

UPARKIT Specific Information

4. What safety features are standard on a UPARKIT system?

The UPARKIT system offers a number of safety features to ensure that patron and vehicle safety is paramount. In the UPARKIT system nothing operates should a vehicle not be in the correct position. There are four different types of sensors that check the movement of vehicles and should any of these sensors become blocked the system will not move on to its next process. In a fully automated system nothing will operate until the person has exited the loading deck to ensure personal safety is not compromised.

5. What security features are standard on a UPARKIT system?

Security is a strong attribute of the UPARKIT system and is enhanced by the fact that patrons do not have access to parked vehicles within the system and operation does not commence until the patron has exited the loading bay and all access to the system is closed down. Only the vehicle loaded by the patron can be reclaimed and the vehicle remains locked throughout its stay in the system.

6. Is the UPARKIT system built to specific quality standards?

The system has been built in accordance with U.S. building codes, and has been certified by structural engineers for earthquake loading requirements.

- 7. Has the UPARKIT system achieved an earthquake rating?**
Yes, due to the quality of the UPARKIT system and the careful planning of Engineers when designing the product, the UPARKIT system has achieved a level 5 rating (out of 5) – the highest possible measure of the structural integrity of a product. This enables the UPARKIT system to be a perfect application to any areas of the world prone to earthquakes, such as Japan, California and parts of New Zealand where the system originated.
- 8. What type of finish is used to ensure a long lifespan of the UPARKIT system?**
All steel used is of high quality and is thoroughly sand blasted, each primed and then top coated in a two pot paint to minimize the opportunity for corrosion. All exposed shafts are coated in rut protective lacquer. To increase life span even further, enclosure of the system is recommended.
- 9. What are the power requirements for the UPARKIT system?**
Each Traverser system requires a power supply 3 Phase 515 volt 100 amps.
- 10. What happens if there is a loss of power?**
When a UPARKIT system is sold, we recommend the purchase of a back up 150KVA diesel generator, (one per Traverser). The system can also be operated in extreme cases in full manual mode to retrieve a vehicle. However this must be performed by a qualified technician after notification to UPARKIT head office in Los Angeles, CA.
- 11. What are the parking and retrieval times of a UPARKIT system?**
Each UPARKIT system has different parking and retrieval times depending on configuration of the system, so times will vary. The UPARKIT system has some of the quickest times in the automated parking industry with a 60 car park system being able to park and retrieve vehicles under a minute on average.
- 12. How does the UPARKIT system measure the dimensions of vehicles?**
Vehicles are checked by four sensors strategically place on the loading deck. Should an oversize vehicle enter the system, warning lights will show and the system will not proceed until the vehicle is removed. Additional sensors check the height of the vehicle to ensure they are compatible with the cells they are being assigned.
- 13. What are the conveyor tracks used on the UPARKIT system made out of?**
The tracks used are glass filled nylon that is UV resistant, high impact, with acetyl pins. This type of material offers reduced friction and is suited to a wide range of temperatures. Also incorporated in the tracks is a ‘grip tread’ for a more positive connection with the vehicle tires.

14. Some of your competitors use hydraulic and pneumatic technologies to operate their systems, why doesn't the UPARKIT system?

Hydraulic and pneumatic systems are prone to leaks and high levels of maintenance and repair. Hoses have to be changed regularly with pressures monitored. From the onset the UPARKIT system wanted to be a 'cleaner, greener' alternative to these methods utilizing the latest technology to provide a quiet, efficient, simple system that can be enjoyed by patrons around the world.

15. How much does each Cell weigh?

Average weight of a Cell structure is 1.4 tons, column weight is 30kg/meter.

16. How much does each Cell weigh when it has a vehicle parked in it?

There are many variables that govern the specific weight per Cell, but on average; if the weight of vehicle is 2 tons and the Cell weight is 1.4 tons equates to 3.4 tons per park. In order for a full system calculation to take place technical drawings will be used to specifically ascertain the number of Cells and system particular to work out column and bracing weights.

17. What is the maximum weight the UPARKIT system can handle?

The UPARKIT system has been built from superior materials and construction methods to put clients and patrons mind at ease when using the U-PARKIT system. Therefore, an extensive effort was put into developing a product that is capable of handling far more than its day to day capacities. The Traverser that lifts a vehicle is fitted with 8 chains in its four strut towers; with each chain having the capacity of 10 tons of lift. With the 8 chains in the lifting mechanism, this gives a total lifting capacity of 80 tons. Considering the average vehicle weighs less than 2 tons, it shows the lengths of quality the design team has put into the UPARKIT system.

Planning Information

18. Can I get a conceptual drawing of how the UPARKIT system may look on my site? How long will it take?

Conceptual drawings are arranged through the UPARKIT sales distributors, and specific information is required to adequately process a conceptual drawing, U PARKIT sales distributors should be contacted to start the process and will inform you of the information required to request a conceptual. In general, a first cut drawing would be available for review within 5 business days subject to the work loads and information supplied.

19. Does UPARKIT have a system to take me through the purchase process?

Yes, all UPARKIT sales distributors have a 'Sales Process Chart' that can be used to guide developers through the purchase progression. Local UPARKIT sales distributors can be contacted to take developers through this analytical approach to the process of development.

20. Can Multiple Traversers be used on a UPARKIT System?

Yes, additional Traversers can be added to a UPARKIT system. At the time of design for a specific site, consultation will be entered into between the UPARKIT sales distributor and client to ensure all possible operational requirements are achieved. In order to achieve optimal parking and retrieval times, additional Traverses may be required.

21. Is there an additional cost for an extra Traverser(s)?

Yes, if additional Traverser(s) are needed on a system there will be an additional cost to the system. This will be assessed by the UParkit NA engineering department and will be discussed on a specific site basis with clients by a local UPARKIT sales distributor.

22. Can a turntable be added to the UPARKIT system when access points are limited?

Yes, the UPARKIT system has been specifically designed for an application where there is an extreme lack of space or for developers that are trying to maximize the potential of space efficiency and this allows for a higher ROI. Turntables can be implemented to further increase the potential of a site.

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24. Can the UPARKIT system accommodate a range of different types of vehicles?

Yes, the UPARKIT system has been designed to allow access for a large range of cars with a standard size Cell that research suggests will fit 95% of all modern regular passenger vehicles. For light trucks, SUV's and Minivans and Van's the top level of the system is a perfect fit, as it is only limited by the roof height clearance.

25. In my region there is a lot of large vehicles, is there a larger Cell available?

Yes, as each system is designed to a clients specific site and requirements a larger Cell is available, this 'oversize Cell' is capable of fitting vehicles of a predominantly larger size and is therefore suited to parts of North America and situations of commercial operators that have large vehicles.

26. In my Region there is a lot of smaller vehicles, is there a smaller Cell available?

Yes, as each system is designed to a clients specific site and requirements a smaller Cell is available, this 'smaller Cell' is capable of fitting vehicles of a predominantly smaller size and is therefore suited to parts of Europe and

developers that are particularly interested in achieving a green building development.

27. Can the UPARKIT system be customized?

Yes, as each system is designed to a client's specific site and requirements, however, if UPARKIT system specifics are outside of the standard design, i.e. in size, a premium pricing will apply.

28. Who is responsible for local municipality consents and building permits?

It is the client's responsibility to organize all relevant consents and building permits. A UPARKIT assigned project manager can be used to answer any product related information, but all other consent related matters are the client's responsibility.

Cost Information

29. How much is each car park Cell?

The price of a UPARKIT system is dependant on many regional factors and site detailed information.

30. Does the purchase price include GST (Goods and Services Tax's)

No, as with most products in the construction and manufacturing industry all prices quoted are exclusive of GST.

31. Once I purchase a UPARKIT System is there a payment schedule?

Yes, consultation will be entered into with each client, but the recommended payment schedule is:

- 50% upon signing of contract to purchase
- 30% upon materials arriving at site
- 20% upon commissioning of the system

UParkit NA Inc. realizes each job may vary depending on specifics within various locations, so clients are encouraged to discuss payment terms with the UPARKIT sales distributor upon signing a letter of intent.

Financial Return of a UPARKIT System

32. How can the UPARKIT system increase my return on investment?

The UPARKIT is an extremely versatile product that offers an increased return on investment to clients in many ways, such as:

- Returning on average 40% of the land footprint to developers that would otherwise be used on a conventional car park.

- Freeing up capital that would otherwise be put into construction of a conventional concrete parking garage.
- In certain cases returning its purchase price in land acquisition.
- Offering income from additional commercial applications i.e. more apartments, retail, car parking spaces etc.
- By being constructed on average in a third of the time of a conventional car park meaning a revenue stream sooner.
- By providing a fully automated system- without the need for any staff.
- Creating tax incentives through Green Building status of developments.
- By being portable- able to occupy a “land banked” site, provide a passive income, and then be moved to allow for capital gains.

Construction Information

33. When I purchase a UPARKIT system, what am I responsible for?

Clients are responsible for the site preparation, installing a ‘base slab’ foundations and any other site specifics required for a UPARKIT system. Any required development approval and municipality consent is also the client’s responsibility. UPARKIT sales distributors are able to provide more detailed information about the development process of a UPARKIT system.

34. What is the size of the concrete ‘base slab’ required to put a UPARKIT system on?

The assigned project manager will advise on an individual basis for specific requirements dependent on the existing site base and geotechnical information provided by the client’s team of professionals.

35. Am I supposed to find my own site engineer to design the concrete foundation, and/or structure?

Dependent on the project, it is anticipated that a close working relationship would be formed between clients, engineers, and UParkit NA. However, if requested, UParkit NA will find partnering consultants within the clients region to take care of design and permit requirements.

36. How do I get the required information to give to my engineer to draw up plans for my site foundations?

Once conceptual plans have been accepted for progression to design, a meeting would be held to discuss a range of details including geo-tech information. At this point a description of foundation requirements would be listed.

37. Is my engineer allowed to contact your Engineer to work out the parameters of this particular job?

UParkit NA likes to develop close working relationships between the client and in-house team. Every job, after passing conceptual layout and a letter of intent

signed, will have a project engineer appointed to facilitate this relationship and to act as the go-between for the various companies involved.

38. Who will manage the installation of the system? Do I need to find people to assemble it?

UParkit NAs' project engineer will manage the installation process of the UPARKIT system. The UPARKIT system maintains its high level of quality by having its own team to construct and oversee the installation process. In certain markets with legal requirements it will be necessary to use a mix of UParkit NA and local labor.

39. Is it possible for UParkit NA to oversee the entire project from start to finish?

UParkit NA concentrates on the manufacture and supply of parking systems; however we are extremely open to the opportunity to partner with local developers and consultants to oversee the entire project if this is what the client wishes, however this may incur an additional cost to the unit.

40. Do you have any cladding options for the UPARKIT system?

Yes, the UPARKIT system has been designed to be aesthetically pleasing fit for almost any application, with the structure lending itself to a variety of different building materials. Currently the base cladding option for an above ground UPARKIT system is AMROC on the bottom three levels (composite concrete/ wood pressed finish material) that has a superior finish, strength and fire rating, and industrial grade wind mesh on the top levels of the structure. This would be finished with a Colorsteel roof, which has the ability to withstand many different elements with a large range of color options on all materials.

41. What does the base cladding cost?

The cost depends on the size and configuration of the UPARKIT system. A local UPARKIT sales distributor should be contacted to discuss the cost of a fully clad UPARKIT system.

42. Can my architect design the whole exterior cladding?

Yes. Each system effectively has a different configuration so consultation is encouraged between the clients architect and the UPARKIT project manager to ensure that any cladding option allows enough room and construction specifications for the UPARKIT system.

43. Can UPARKIT design and carry out a full 'Turnkey' operation?

Yes, in a basement or above ground situation UParkit NA has the capabilities to carry out a full Turnkey operation. Clients should notify their UPARKIT sales distributor as soon as they would like to receive pricing information on this type of construction.

44. How many cells per day can UPARKIT install?

Due to the high product knowledge and skill of the UPARKIT installation team, installation of over 10 Cells per day is easily achievable with a small team of professionals. Each Traverser needs to be programmed by a qualified technician and generally takes 2-3 weeks. As an indication UPARKIT can install and commission 200 Cells in as little as two months.

45. How does the installation process work?

Once all relevant contracts and legalities have been signed between UParkit NA and the client, the product is manufactured and transported to arrive at the designated site, effectively complete, minus head shafts and gearboxes (due to width restrictions). Once on site the area is measured for placement of legs, it is then constructed from one end with legs bolting up to Cells as the structure grows longitudinally. After the structure is erected, the electricians connect the wiring and commissioning begins.

Operations Information

46. How many UPARKIT systems are currently operating?

The First UPARKIT System is at Rotorua Regional Airport in New Zealand. This 42 Cell system was designed and implemented in an Airport Hanger that previously held 12 vehicles.

47. How will my patrons know how to use the UPARKIT system?

After the UPARKIT system has been built and commissioned, the installation team will show the client how simple the fully automated system is to use. Various signage and waiting areas for vehicles and patrons will be discussed with the client from the onset and full transition to using the new UPARKIT system will be covered by the operations manual.

48. When will I receive my operations manual? What does it cost me?

There is no cost to the client for the operations manual. UParkit NA considers this part of its service to customers and will provide the maintenance and operations manuals to clients as soon as the UPARKIT system is commissioned on site. The installation team will then take clients through the operation of the system and list the contact details of the UPARKIT maintenance provider.

Warranty, Maintenance & Insurance Information

49. Does UPARKIT offer a warranty on the system?

UParkit NA will provide a maintenance service for the first 2 years. There is a 10 year Structural Warranty meaning, if anything needs to be replaced because of

incorrect manufacture, UParkit NA will replace or fix it at their cost. Other additional supplier warranties may cover past this period.

50. Who organizes the maintenance for the UPARKIT system?

UParkit NA will provide a maintenance service for the first 2 years. After this period the client can choose to extend the maintenance contract with UParkit NA or find their own maintenance provider- that carries out work as guided by the operational and maintenance manual provided with each system.

51. What is the maintenance schedule for the system?

Maintenance schedules will vary from application to application however the required maintenance for the UPARKIT system is surprisingly small. As a guide for maintenance on a UPARKIT system a bi-monthly check would be required of; sensors required for cleanliness and adjustment, a check of chain tensions, lubrication of Traverser bearings and oil level checks of gearboxes. Also required would be an annual inspection of structure, will full lubrication and tension checks.

52. Who will be responsible fore finding the right people to maintain the mechanics or software of the system?

Prior to installation of the UPARKIT system UParkit NA will find local electrical and mechanical firms to partner with. These firms will assist in installation and then be responsible for maintenance during the 2 years service provided by UParkit NA. It would be anticipated that the client would then use these companies but there is no obligation for them to do so.

53. Does the purchase price include extra parts for maintenance?

UParkit NA will supply as an inventory of spares the following items as standard. Depending on the size of the project, volumes of parts may vary.

- Lift Gearbox and Motor
- Long travel Gearbox and Motor
- Transfer Conveyor Gearbox and Motor
- Park Cell Gearbox and Motor
- 11.5m of Conveyor (1 full wrap)
- Conveyor Sprockets
- 4 Flange Bearing assembly 40mm, 50mm
- Minimum 10 joiner links for each chain size used
- 2 cross view sensors of each type used
- Omron electrical 'Varidrive' unit
- Ultrasonic sensor
- Laser positioning unit
- R/F read/write unit
- 2 Omron remote contactors

54. What happens if the system breaks down?

A system alert will be sent from the clients system to both UPARKIT's Head Office in Los Angeles, CA and to the local contractor UPARKIT employs in the clients region. The local service contractor will then be responsible to immediately action any fault in the system and the Head Office in LA will follow up the fault process to ensure the issue was resolved quickly to the client's satisfaction. Regular monthly checks ensure that key sensors are cleaned and strategic equipment is checked on a regular basis, and any key maintenance is done before failure occurs.

55. Do I have to wait for parts to arrive from overseas?

No, the UPARKIT system has been designed with the end user and maintenance in mind; therefore most components are easily accessible world wide. All replacement parts fitted to the UPARKIT system must meet specifications set out in the maintenance and operating manual.

56. Whose responsibility is insurance on the UPARKIT system?

UParkit NA will cover liability of the system/components in transit and the site during the construction phase. After that, the owner is required to take out insurance to cover the system and public liability insurance to cover the use for patrons or employees. If a patron or employee is injured because the system has a structural failure caused by improper engineering, UParkit NA maintains responsibility.