

**TEDRA  
AUTOMOTIVE  
SOLUTIONS PVT. LTD.**



**TEDRA**  
The Space Makers

TEDRA AUTOMOTIVE SOLUTIONS PVT. LTD.



**Customized Car Parking Solutions**

## ABOUT TEDRA

We are a customer focused car parking solution provider & have been serving our customers in the field of Car Parking for the last decade.

TEDRA has a varied product range in Car Parking and specializes in offering customized solutions. We provide guidance and advice from the concept of a project, considering the various variables involved in real estate to help our customers plan and optimize parking according to their requirement. Products offered by TEDRA cater to all kinds of parking; be it underground, aboveground, vertical or horizontal systems. From a basic stacker for 2 cars, to a tower of 60/100 cars or public parking for a few hundred cars, we have solutions for all.

Ease of use, Customized designs, Customer friendly technology with a world class service remains our primary focus. In appreciation of our efforts to provide the best to our customer TEDRA was awarded as 'The Best Company in Parking Automation' for the year 2019 by CIA World Magazine. We have an ISO 9001:2015 Certification for all our activities namely Design, Manufacturing, Installation and Service.

Our manufacturing set up, with a manufacturing capacity of 10,000 car parking pallets annually, is based in the industrial town of Chakan in Pune district. We have regional offices in Mumbai, Bangalore and Pune with sales and service hubs at Hyderabad, Chennai, Delhi and Kolkata. Our offices are fully equipped with our sales service and installation teams.



## Mission Statement

TEDRA Auto is committed to the use of Smart State Of the Art Technology, to provide Simple, Safe, Economic and Reliable solutions for car parking dedicated to customer requirements. Our brand will remain synonymous with dependability, quality, exceptional service combined with latest technology.

## PRODUCT RANGE

### ❖ TOWER PARKING SYSTEM

Page 1-2

- Single Side Tower Parking System
- Both Side Tower Parking System (1+1)
- Double Deep Tower Parking System (2+2)
- Triple Deep Tower Parking System (3+3)

### ❖ CART PARKING SYSTEM

Page 6-7

- Cart Parking System (Lengthwise)
- Cart Parking System (Breadthwise)

### ❖ MINI-ROTARY PARKING

Page 8

- Mini- Rotary Parking System (16 Cars Sedan)
- Mini- Rotary Parking System (12 Cars SUV)

### ❖ HORIZONTAL CIRCULATION PARKING SYSTEM

Page 9

### ❖ HYDRAULIC PUZZLE PARKING SYSTEM

Page 10

- 2 Level Puzzle Parking System (+2)
- 2 Level Puzzle Parking System (-1 & +Ground)
- 3 Level Pit Puzzle Parking System (-1 & +2)
- Combination Of 2 Level Puzzle Parking System
- Combination Of 2 Level & 3 Level Pit Puzzle Parking System

### ❖ MECHANICAL PUZZLE PARKING SYSTEM

Page 12

- Over Ground Puzzle Parking System (2 to 8 Levels)
- 1 in Pit & 7 Above Puzzle Parking System (-1 & +7)
- 2 in Pit & 6 Above Puzzle Parking System (-2 & +6)
- 3 in Pit & 5 Above Puzzle Parking System (-3 & +5)

### ❖ STACK PARKING SYSTEM ( HYDRAULIC & MECHANICAL )

Page 14

- Stack Park 210 (Ground & Above)
- Stack Park 220 (Ground & 2 Above)
- Stack Park 310 (Pit, Ground & Above)
- Stack Park 320 (Pit & Ground Independent)
- Stack Park 340 (Pit & Ground)
- Cantilever Stack Park 400

### ❖ AUTOMOBILE ELEVATOR (CAR)

Page 16

- Car Lift ( Hydraulic)
- Car Lift ( Traction)



## TOWER PARKING SYSTEMS

Tower Parking is a fully automated parking system where a separate tower/building is constructed only for parking space that can accommodate 20 to 80 cars. Tower can also be designed to meet requirements as per space available & parking requirements, suitable for all passenger cars be it Sedan, SUV or hatchbacks.

The system mainly comprises of vertical columns, a lift for vertical movement of vehicles and pallets for horizontal movement. The car usually enters the building/parking space through the entrance room and is then raised into parking space through the main lift and then moved into empty space using pallet movement. This is a hassle free solution for parking without driving through the drive ways and finding the space for parking. This being an automated system with no human intervention, is much safer. This system can also be incorporated with rotary mechanism at the bottom to rotate the car 180/90 degrees to help drive out the car directly without reversing. Tower models are available as Twin, Double, Triple tower, based on specific customer requirements.



**CLADDED VIEW OF TOWER SYSTEM  
AT SITE**



**TOWER SYSTEM**



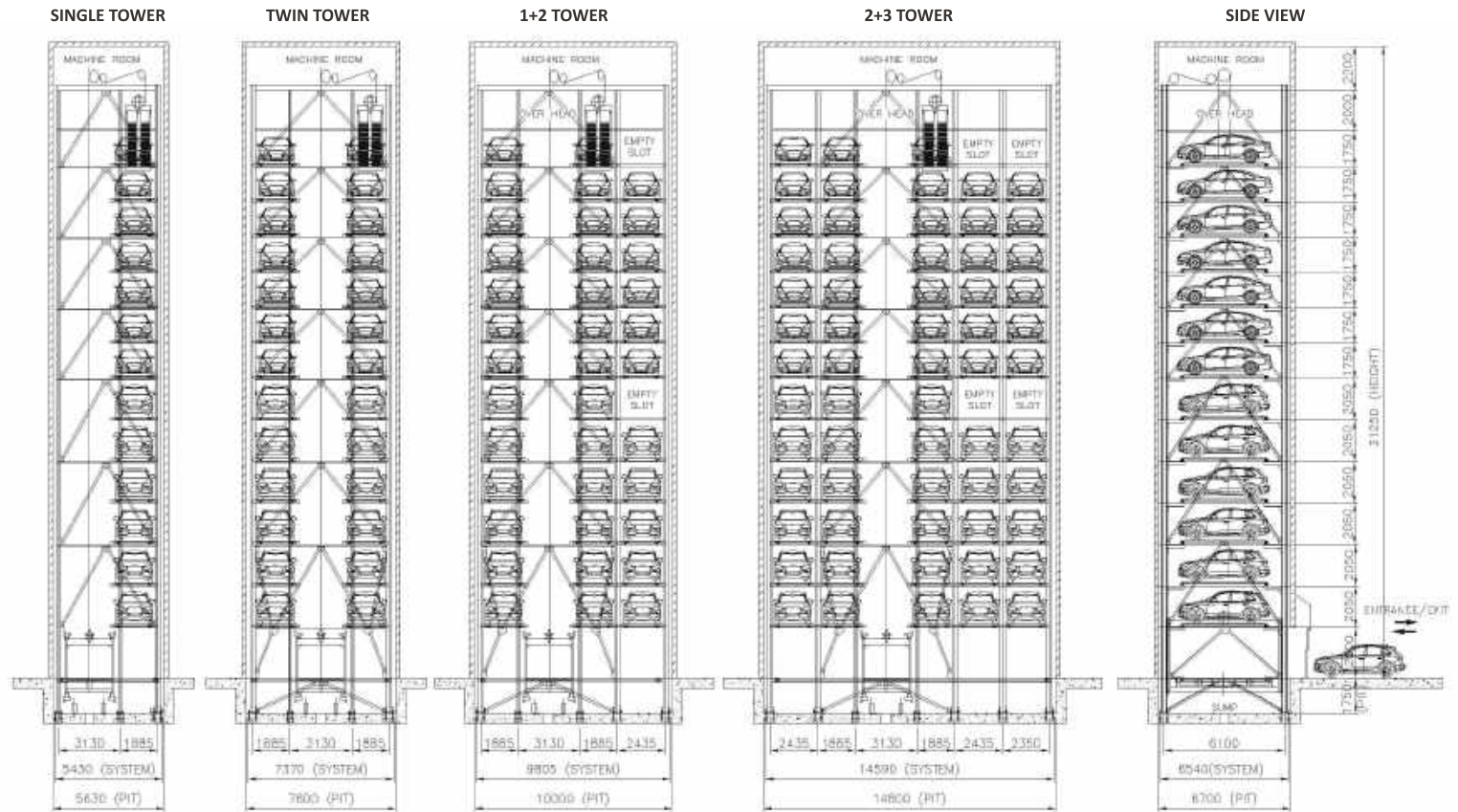
**TOP VIEW (TOWER SYSTEM)**



**SIDE-VIEW, RCC TOWER**

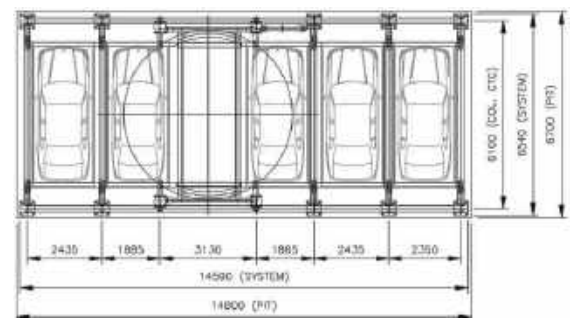


## TOWER TYPE SYSTEM



### ❖ TECHNICAL SPECIFICATIONS

PART NAME	CONTENTS	
MODEL & TYPE	TOWER TYPE CAR PARKING	
MAXIMUM CAR SIZE	LENGTH	5200 MM
	WIDTH	2150 MM WITH MIRROR
	HEIGHT	1700 MM/2100 MM
	WEIGHT	2000 / 2500 KG
VERTICAL DRIVING UNIT	TYPE	WIRE ROPE
	MOTOR	22/30 KW (VECTOR MOTOR)
	SPEED	60M/MIN OR 90 M/MIN
	DRIVE	GEARED MOTOR WITH BRAKE
HORIZONTAL DRIVE	MOTOR	1.5 KW / 2 HP
	SPEED	15M / MIN
	DRIVE	GEARED MOTOR WITH BRAKE
POWER SOURCE	MAIN	AC 415V, 3 PH, 50HZ
	LIGHTING	AC 220V, 1 PH, 50HZ
OPERATION	TOUCH SCREEN	
CONTROL	PLC	
ENTRY & EXIT	TURNABLE (OPTIONAL)	
PALLET THICKNESS	4.5MM	
SAFETY DEVICES	INDUCTION AND GUIDANCE LIGHTS AT THE ENTRANCE	
	EMERGENCY STOP SWITCH	
	IMPACT SOFTENING DEVICE	
	PHOTO SENSORS	
	SYSTEM FOR THE PREVENTION OF OVER-RUN OF LIFTS	
TURNABLE	SENSOR FOR DETECTING THE LOCATION OF AUTOMOBILES	
	MOTOR	3 HP / 2.2KW
	SPEED	7 RPM
	DRIVE	GEARED MOTOR WITH BRAKE



## CART TYPE PARKING SYSTEM

CART parking is a multi-leveled car parking system that is designed to park 20 to 200 cars into each parking space by moving the vehicles automatically in all the three axes using a lift and parking cart. The parking cart can move independently on each parking level and can retrieve vehicles from parking lots.

This is the most advanced mechanical parking system. With speedy car parking /retrieval that is suitable for a larger scale of car parking. The cart system can maximize utilization of space by installing many rows of the carts.

A car usually enters the building/parking space through the entrance room and is then raised up to required parking level using lift and moved to the parking space using a cart. This is a hassle free solution for parking without driving through the driveway and finding a parking space. Being an automated system with no human intervention, it is much safer. This system can be incorporated with a rotary mechanism at the bottom to rotate the car 180 degrees to drive the car directly forward.



### ❖ TECHNICAL SPECIFICATIONS

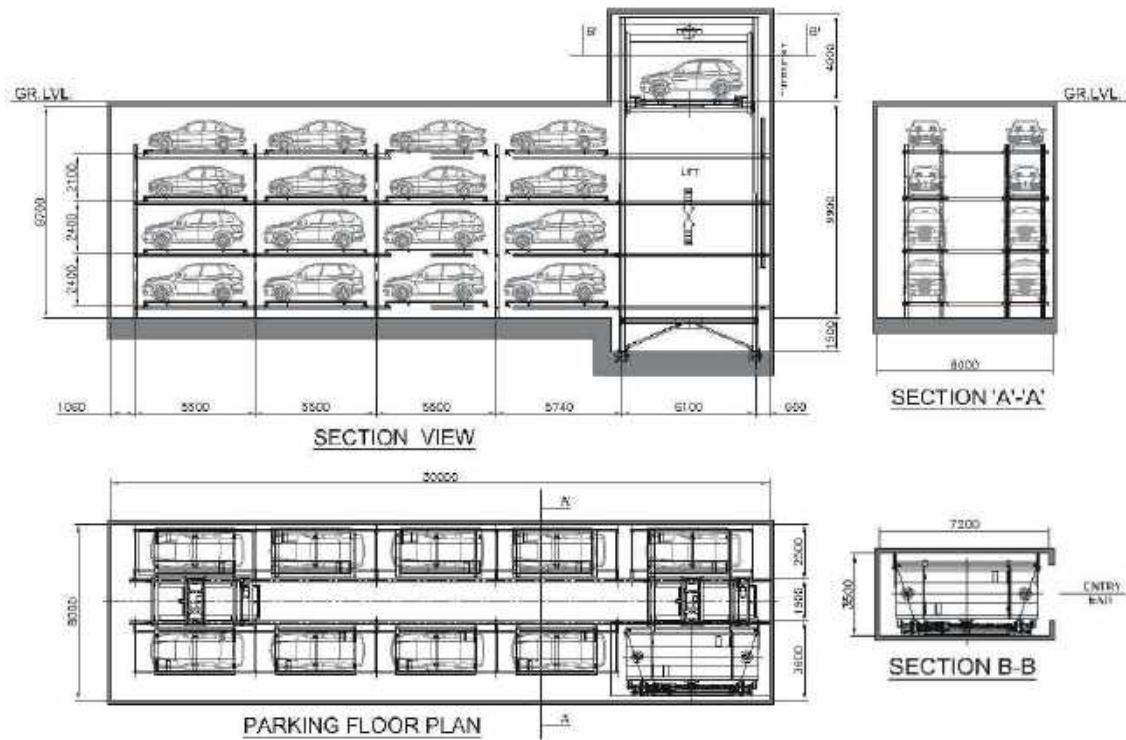
PART NAME	CONTENTS
MODEL & TYPE	CART TYPE CAR PARKING SYSTEM
MAXIMUM CAR SIZE	LENGTH 5000 MM / 5200 MM
	WIDTH 1800 MM
	HEIGHT UP TO 01-02 LEVEL - 2000 MM AND 03 TO 07 LEVEL - 1700 MM
	WEIGHT 2000 KG.
VERTICAL DRIVING UNIT	TYPE ELEVATOR
	MOTOR 11 KW (VECTOR MOTOR)
	SPEED 45 M / MIN
	DRIVE GEARED MOTOR WITH BRAKE
HORIZONTAL DRIVE	MOTOR 1.5 KW / 2 HP
	SPEED 35 M / MIN
	DRIVE GEARED MOTOR WITH BRAKE
POWER SOURCE	MAIN AC 415V, 3 PH, 50 HZ
	LIGHTING AC 220V, 1 PH, 50 HZ
OPERATION	TOUCH SCREEN
CONTROL	PLC
ENTRY & EXIT	ENTRANCE WITH SENSOR
PALLET THICKNESS	4.5MM
SAFETY DEVICES	PARKING GUIDANCE LAMP WHICH WILL SOUND AN ALARM IF THE DOOR IS OPENED OR CAR IS NOT PARKED IN PROPER POSITION.
	EMERGENCY STOP SWITCH
	IMPACT SOFTENING DEVICE
	PHOTO SENSORS

### ❖ Features :

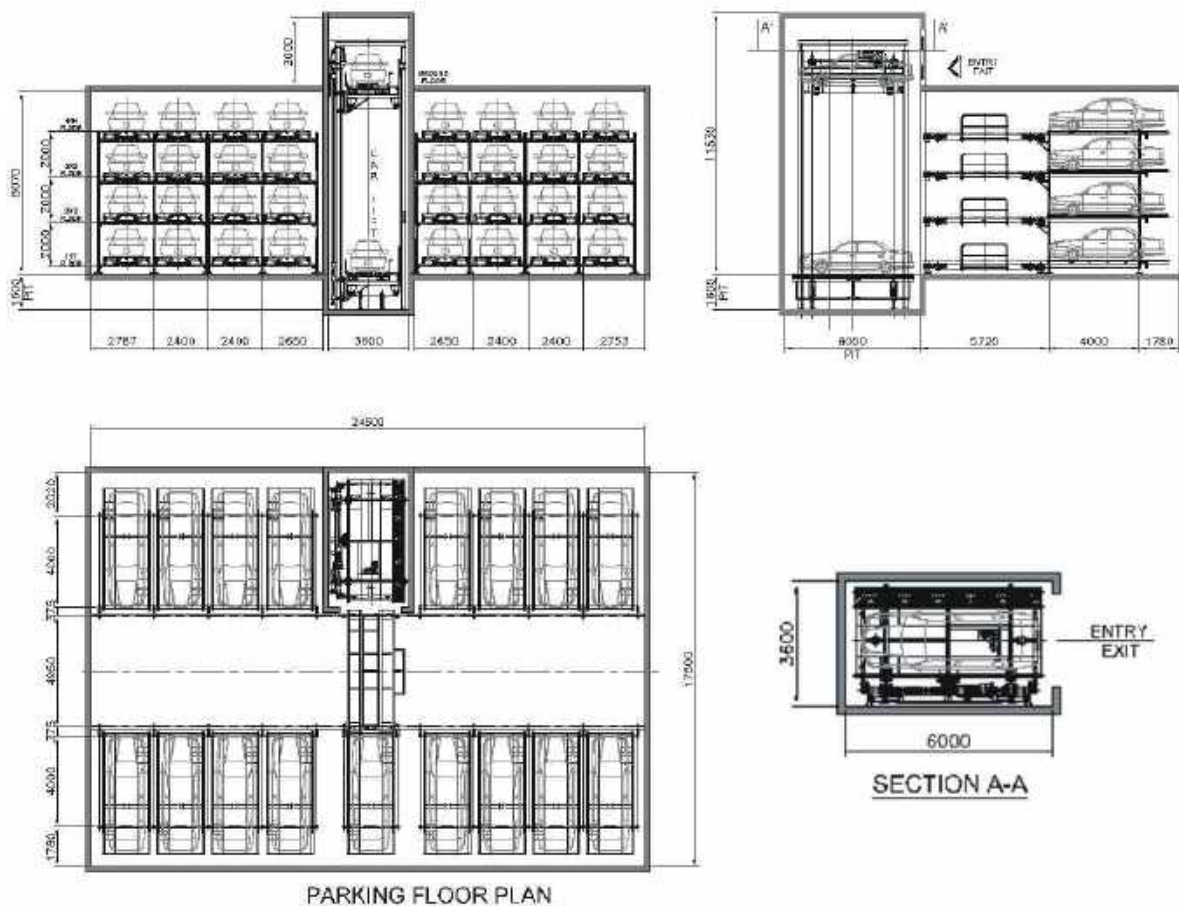
- Fully automated system.
- Designed for 20 to 2000 cars.
- Can be installed in buildings pit/open space as tower.
- Can accommodate SUV/MUV/Sedans.
- Carrying capacity up to 2500kg.
- Easy operation with several control options, e.g. HMI, Keypad, Card.
- Green parking – suitable for residential or office building, public parking area.

## CART TYPE SYSTEM

### ❖ CART PARKING SYSTEM (LENGTHWISE)



### ❖ CART PARKING SYSTEM (BREADTHWISE)





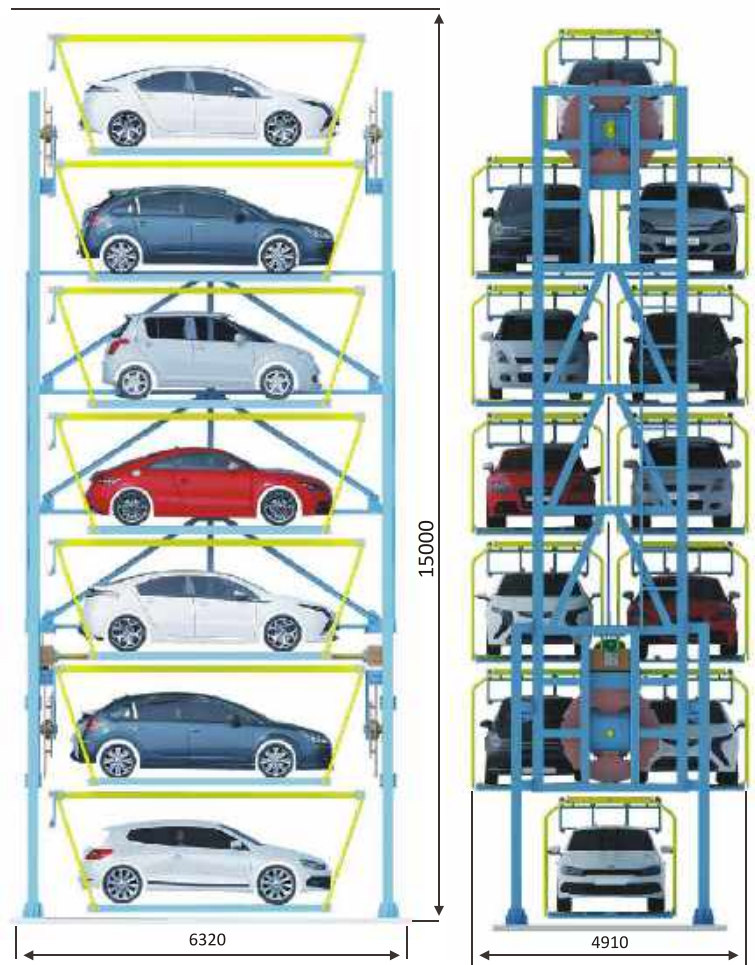
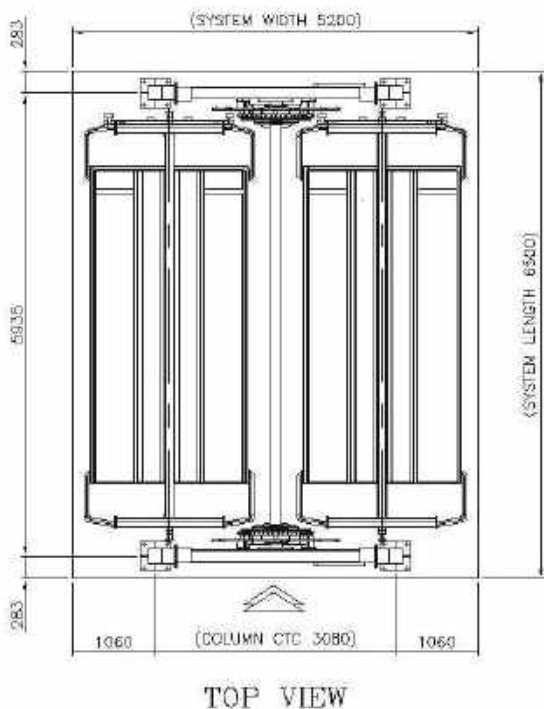
## MINI ROTARY PARKING SYSTEM

This System is designed to park cars vertically into the circulating Merry Go Round / Carousel either in left or right direction after entering the parking pallet. The operations are automated and one can park without assistance. It is available in modules that can park a minimum of 8 and up to 16 cars.

- Various capacity modules available
- 8 / 16 cars per module
- Low power consumption
- Space required per module is that of 2 cars.

### ❖ SAFETY DEVICES

- Parking guidance lamp, Emergency stop switch.
- Entrance indicators, Mirror for safe parking.
- Photo sensors for dimensional indication.
- Voice announcement (optional)
- Overrun stopper on the pallet.
- Relay for motor protection



<b>Allowable Car Dimensions</b>	5000L x 1850W x 1700H to 2000H, 1500Kgs to 2000Kgs				
<b>Speed</b>	4Mtr/Min				
<b>Operating Power</b>	Geared Motor 7.5 to 11KW				
<b>Operation Control</b>	PLC Control With Touch Screen				
<b>Module</b>	TMR 8	TMR 10	TMR 12	TMR 14	TMR 16
<b>Height in m (SUV)</b>	12.5	15	17.5	20	22.5
<b>Height in m (Sedan)</b>	11	13	15	17	19.2



## HYDRAULIC PUZZLE PARKING SYSTEM

Hydraulic puzzle parking system is a cost effective system that can accommodate parking of 5 to 23 cars in a single module. The system comprises of top and pit pallets that move only in vertical direction, and ground level pallets that move only in horizontal direction by means of hydraulic system with one empty pallet.

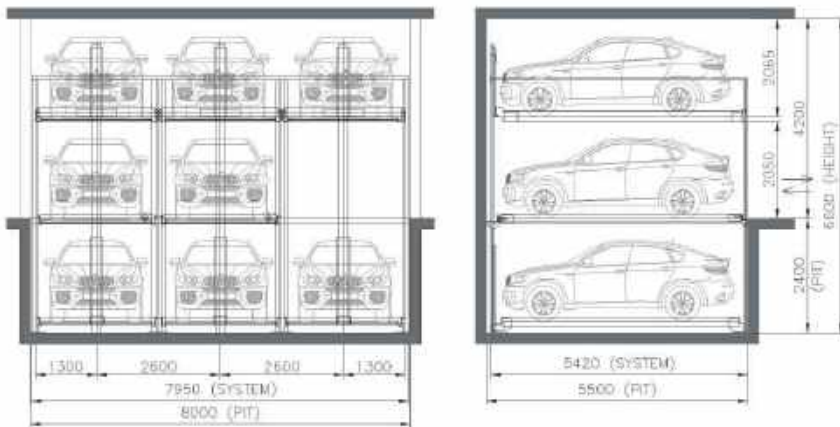
The car is parked on ground level pallet and then it is moved to top or pit level depending on space available. The cars parked on ground level pallets can directly be removed by just driving off.

In order to remove the car from its top or pit level, the ground level pallets are moved aside in horizontal direction using mechanical motors attached to the pallets and then the required pallet is lowered or raised to ground level and the car is driven off. The system is fully automated and can be customized to accommodate cars of different heights at different levels.

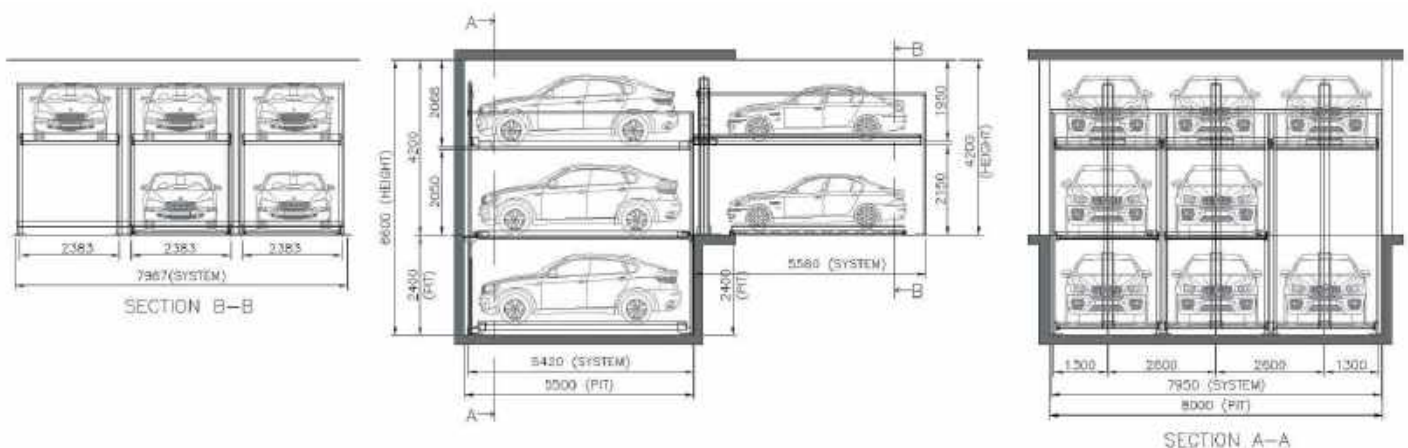
- Independent Parking System
- Easy to operate and install
- Car height shown in figure includes Antenna, Roof rails, and Brackets
- Modules customized as per site dimensions
- Powder coated, Galvanized or Epoxy painted as per customer specifications.



### ❖ 3 LEVEL PIT PUZZLE PARKING SYSTEM (-1 & +GROUND, +1)



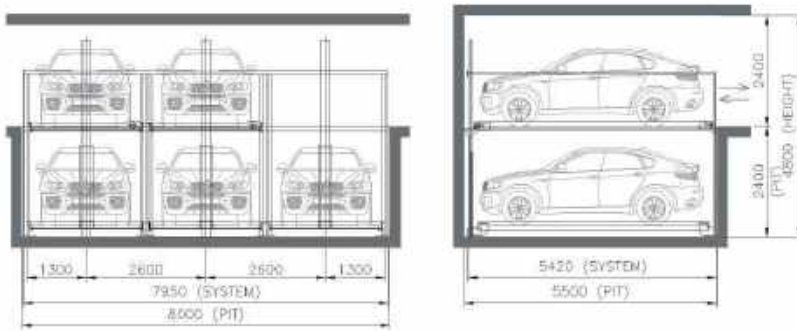
### ❖ COMBINATION OF 2 LEVEL & 3 LEVEL PIT PUZZLE PARKING SYSTEM



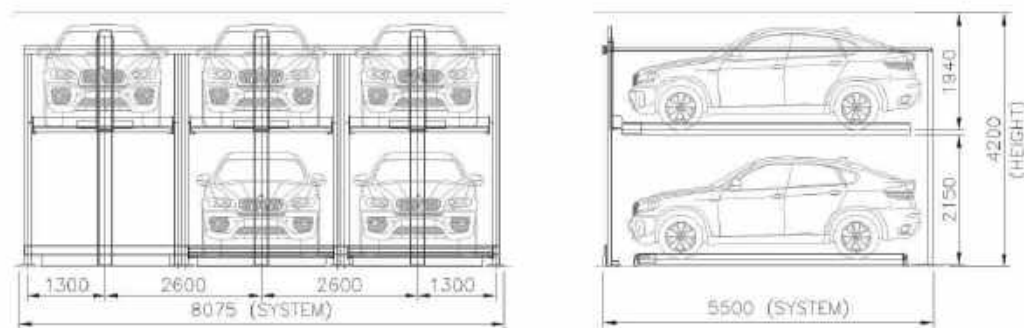


## HYDRAULIC PUZZLE PARKING SYSTEM

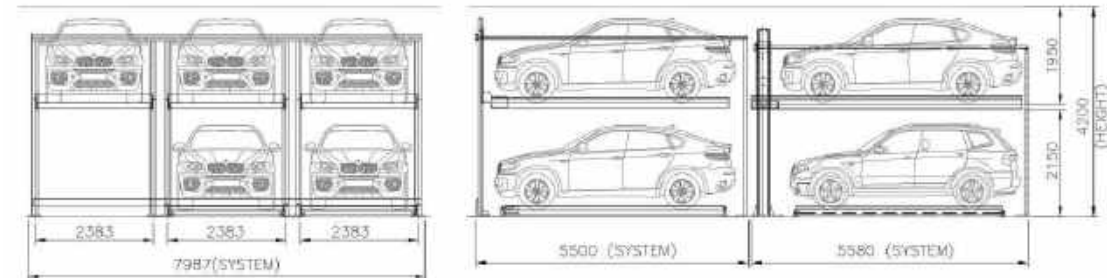
### ❖ 2 LEVEL PUZZLE PARKING SYSTEM (+2)



### ❖ 2 LEVEL PUZZLE PARKING SYSTEM (-1 & +GROUND)



### ❖ COMBINATION OF 2 LEVEL PUZZLE PARKING SYSTEM



### ❖ TECHNICAL SPECIFICATIONS (HYDRAULIC PUZZLE)

PART NAME	CONTENTS	
MODEL & TYPE	HYDRAULIC PIT PUZZLE PARKING SYSTEM - 1	
MAXIMUM CAR SIZE (WITH CUSTOMIZED MODULE)	LENGTH	4800 MM
	WIDTH	2100 MM
	HEIGHT	2000 MM / 1700 MM
	WEIGHT	2000 KG
VERTICAL DRIVING UNIT	DRIVE	HYDRAULIC CYLINDER & CHAIN TYPE
	MOTOR	3 HP / 2.2 KW, 415VAC, 50Hz
	SPEED	4 M / MIN
HORIZONTAL DRIVE UNIT	DRIVE	GEARED MOTOR & CHAIN TYPE
	MOTOR	0.5 HP / 0.37 KW / 415VAC, 50Hz
	SPEED	7 M / MIN
POWER SOURCE	MAIN	AC 415V, 3 PH, 50 Hz
	LIGHTING	AC 220V, 1 PH, 50 Hz
OPERATING BOX	TOUCH SCREEN	
CONTROL	PLC CONTROL	
SAFETY DEVICES	KEY SELECTOR SWITCH TO STOP THE SYSTEM	
	EMERGENCY PUSH BUTTON IN OPERATING PANEL	
	MECHANICAL LOCKING ARRANGEMENT	
	OVER TRAVEL LIMIT SWITCH	
	FRONT ENTRY SENSOR	

### ❖ 2 LEVEL PUZZLE PARKING SYSTEM



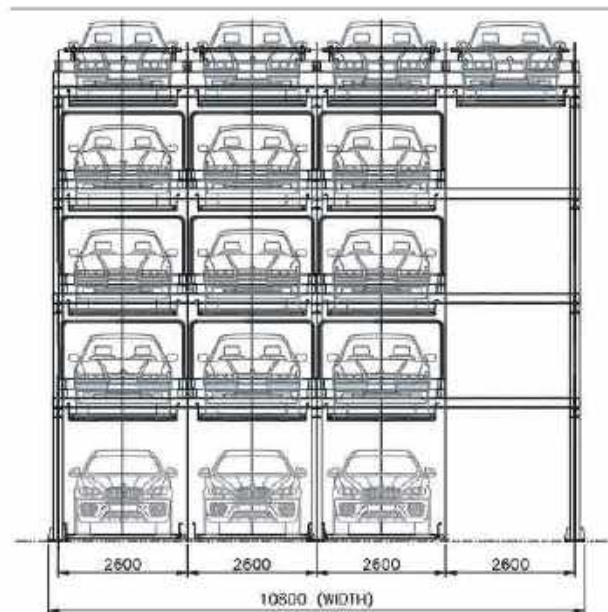
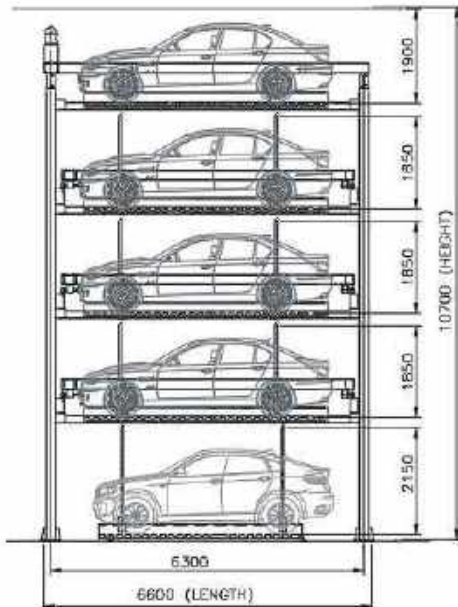
## OVER GROUND MECHANICAL PUZZLE PARKING SYSTEM (2 TO 8 LEVELS)

Mechanical puzzle parking system is a cost effective system that can accommodate 5-50 cars per module. With a minimum of 2 and up to 8 vertical levels. The system comprises of top pallets that move only in vertical direction, ground level pallets that move only in horizontal direction and intermediate pallets that move both in horizontal and vertical direction by mechanical system (one column that remains empty).

Normally the car is parked on ground level pallet and then it is moved to higher levels depending on space available. The cars parked on ground level pallets can directly be removed by just driving off.

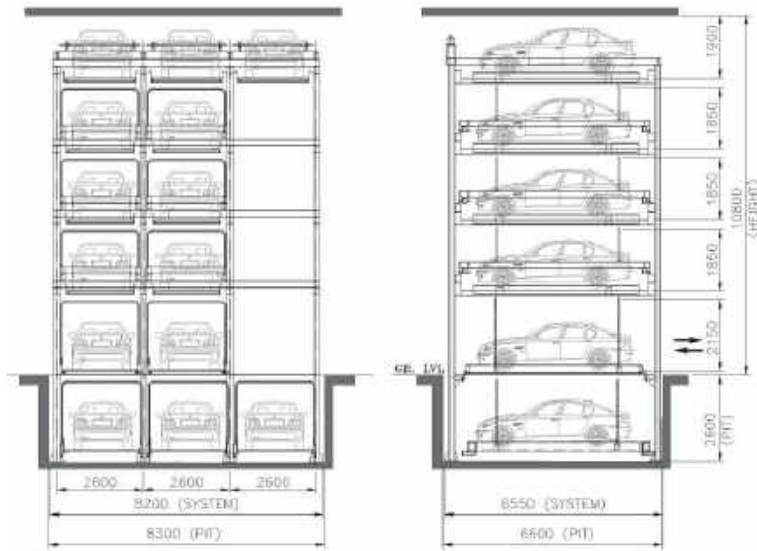
In order to remove the car from its raised position, the lower pallets are moved aside in horizontal direction using mechanical motor attached to the pallets and then the required pallet is lowered to ground level and the car is driven off. The system is fully automated and can be customized to accommodate cars of different heights at different levels.

- Independent parking system
- Easy to operate and install
- Low maintenance cost
- Car height shown in figure includes Antenna, Roof rails, and Brackets
- Modules customized as per site dimensions
- Powder coated, Galvanized or Epoxy painted as per customer specifications.



## COMBINATION PUZZLE

### ❖ 6 LEVEL PIT PUZZLE PARKING SYSTEM (-1 & +G, +3~5)



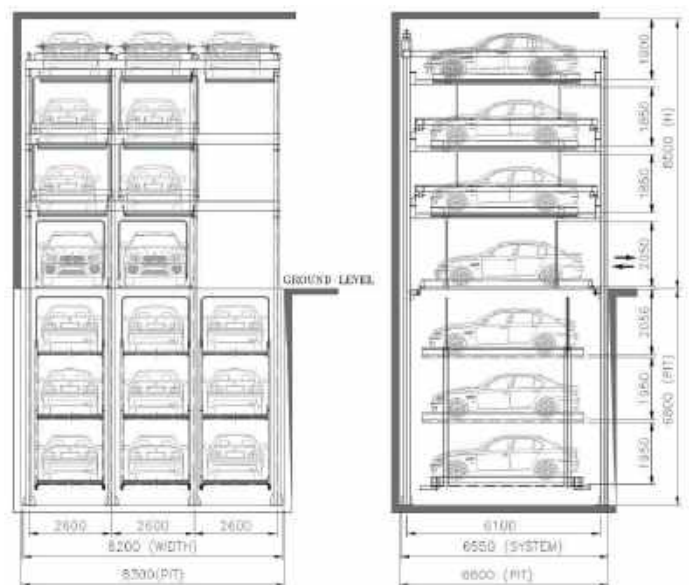
### ❖ TECHNICAL SPECIFICATIONS ( MECHANICAL PUZZLE)

PART NAME	CONTENTS	
MODEL & TYPE	3 LEVEL MECHANICAL PIT PUZZLE - 18 CARS	
MAXIMUM CAR SIZE (WITH CUSTOMIZED MODULE)	LENGTH	5000 MM
	WIDTH	1900 MM
	HEIGHT	2000 MM
	WEIGHT	2000 KG
VERTICAL DRIVING UNIT	TYPE	WIRE ROPE & CHAIN
	MOTOR	3 HP
	SPEED	4.4 M / MIN
	DRIVE	GEARED MOTOR WITH BRAKE
HORIZONTAL DRIVE UNIT	GEARED MOTOR	0.18 KW / 0.25 HP TO 0.37 KW / 0.5 HP
	SPEED	7 M / MIN
	DRIVE	GEARED MOTOR WITH BRAKE
POWER SOURCE	MAIN	AC 415V, 3 PH, 50 Hz
	LIGHTING	AC 230V, 1 PH, 50 Hz
OPERATION	PUSH BUTTON TYPE / TOUCH SCREEN	
CONTROL	PLC CONTROL	
FINISHING	MS PAINTED	
SAFETY DEVICES	EMERGENCY STOP SWITCH ON OPERATING PANEL	
	PHOTO SENSORS TO RESTRICT ENTRY OF ANY PERSON DURING OPERATION	
	FINAL LIMIT SWITCH	

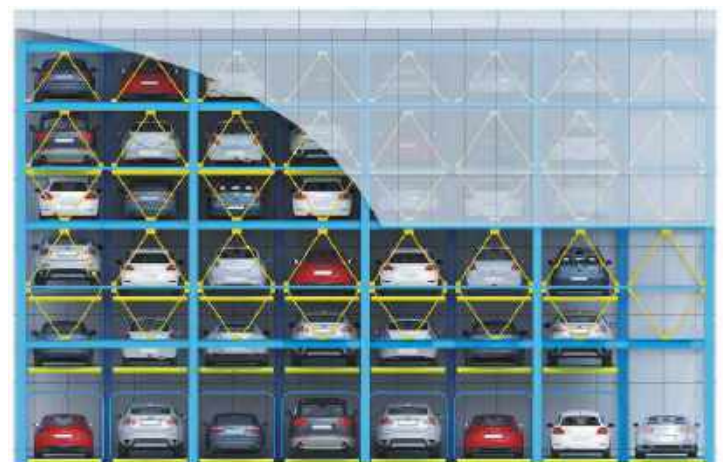
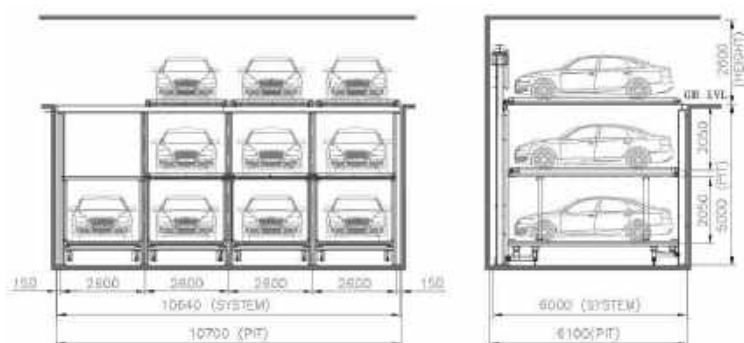
### ❖ 7 LEVEL PIT PUZZLE PARKING SYSTEM (-2 & +G, +4~5)



### ❖ 7 LEVEL PIT PUZZLE PARKING SYSTEM (-3 & +G, +3~5)



### ❖ 3 LEVEL PIT PUZZLE PARKING SYSTEM (-2 & +G)





## STACK PARKING SYSTEM – HYDRAULIC / MECHANICAL

Generally suitable for all passenger cars, the system provides a dependent but cost effective solution for parking 2 cars (One above other). The system normally comprises of a pallet that moves in vertical direction driven by hydraulic cylinder/mechanical system.

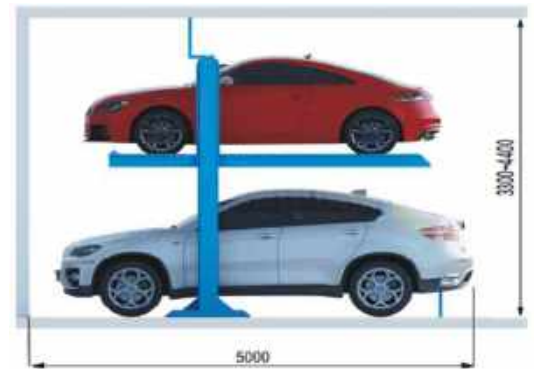
The pallet rests on ground floor and the car is parked on it. If a second car has to be parked, the pallet is raised to Stroke height above the ground and the second car is parked directly on the ground itself. The car can directly be removed from the ground floor.

In order to remove the car from its raised position, the pallet is lowered to the ground and the car is just driven off. But in case if a car is parked on the ground below the pallet, firstly the car on the ground floor must be removed and then the pallet can be lowered so that the car parked on pallet can be removed.

As per standard norm platform minimum width of 2.3m. Larger vehicles require platform 2.5m, larger car platform with width 2.7m (Optional)

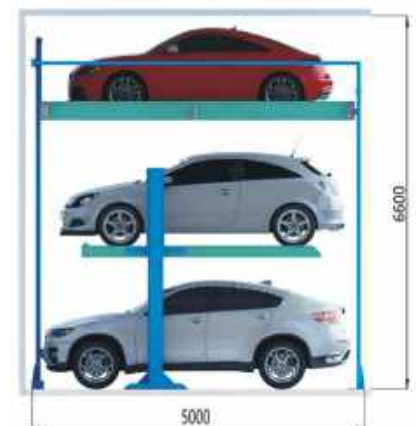
### ❖ STACK PARK 210

- Installed in basement or open space
- Easy entry and exit.
- Dependent parking system (valet parking)
- Can fit 2 cars in the system.
- Easy to maintain, low maintenance cost
- Car height includes Antenna, Roof rails & Brackets
- Modules customized as per site dimensions
- Powder coated, Galvanized (optional) or Epoxy painted as per your specifications.
- Available in 2 ton & 2.5 ton (optional)



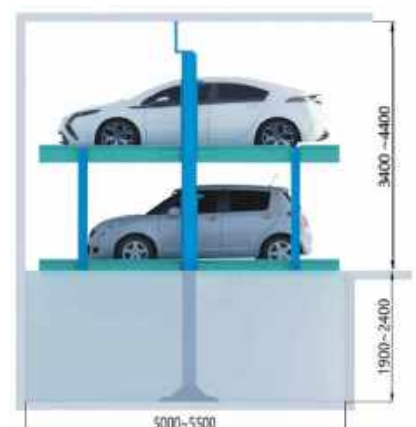
### ❖ STACK PARK 220

- Installed in basement or open space
- Dependent parking system
- Easy to maintain, low maintenance cost
- Car height includes Antenna, Roof rails & Brackets
- Modules customized as per site dimensions
- Powder coated, Galvanized, or Epoxy painted as per your specifications.
- Available in 2 ton & 2.5 ton (optional)



### ❖ STACK PARK 320

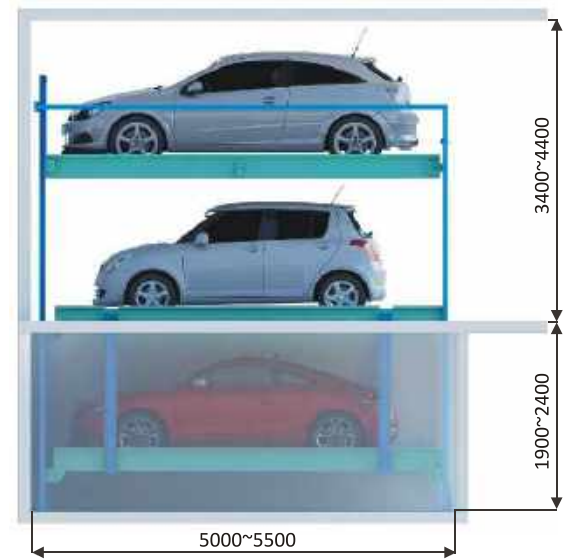
- Installed in basement or open space
- Independent system
- Easy to maintain, low maintenance cost
- Foundation depth 180mm
- Car height includes Antenna, Roof rails & Brackets
- Modules customized as per site dimensions
- Powder coated, Galvanized, or Epoxy painted as per your specifications.
- Available in 2 ton & 2.5 ton (optional)



## STACK PARKING SYSTEM – HYDRAULIC / MECHANICAL

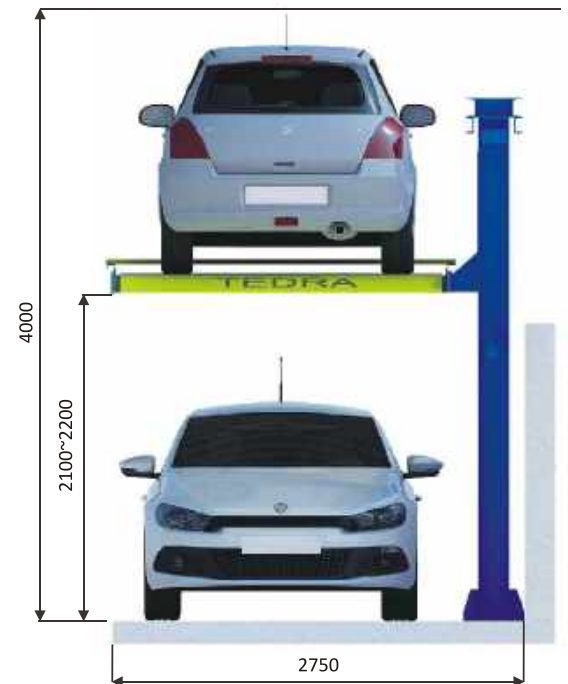
### ❖ STACK PARK 310

- Installed in basement or open space
- Dependent parking system
- Easy to maintain, low maintenance cost
- Car height includes Antenna, Roof rails & Brackets
- Modules customized as per site dimensions
- Powder coated, Galvanized, or Epoxy painted as per your specifications.
- Available in 2 ton & 2.5 ton (optional)



### ❖ STACK PARK 400

- Installed in driveways & open spaces
- Dependent parking system easy to maintain, low maintenance cost
- Foundation depth 180 mm
- Car height includes Antenna, Roof rails & Brackets
- Modules customized as per site dimensions
- Powder coated, Galvanized, or Epoxy painted as per your specifications.
- Available in 2 ton & 2.5 ton (optional)



### ❖ TECHNICAL SPECIFICATIONS (HYDRAULIC STACK)

PART NAME	CONTENTS	
MODEL & TYPE	HYDRAULIC STACK PARKING SYSTEM	
MAXIMUM CAR SIZE (WITH CUSTOMIZED MODULE)	LENGTH	5000 MM
	WIDTH	2100 MM
	HEIGHT	1750 MM / 1800 MM / 2000 MM
	WEIGHT	2000 KG
VERTICAL DRIVING UNIT	TYPE	HYDRAULIC CYLINDER & CHAIN TYPE
	MOTOR	3 HP / 2.2 KW, 415VAC, 50Hz
	SPEED	4 M / MIN
	DRIVE	HYDRAULIC CYLINDER & CHAIN TYPE
POWER SOURCE	MAIN	AC 415V, 3 PH, 50 Hz
	LIGHTING	AC 220V, 1 PH, 50 Hz
OPERATING BOX	3 WAY ENCLOSER BOX WITH UP, DOWN & KEY SWITCH	
CONTROL	RELAY LOGIC	
SAFETY DEVICES	KEY SELECTOR SWITCH TO STOP THE SYSTEM	
	MECHANICAL LOCKING ARRANGEMENT	

### ❖ TECHNICAL SPECIFICATIONS (CANTILEVER SYSTEM)

PART NAME	CONTENTS	
MODEL & TYPE	CANTILEVER SYSTEM - 2 SYSTEMS (FOR CAR E)	
MAXIMUM CAR SIZE (WITH CUSTOMIZED MODULE)	LENGTH	5000 MM
	WIDTH	2100 MM
	HEIGHT	2000 MM
	WEIGHT	2000 KG
VERTICAL DRIVING UNIT	TYPE	WIRE ROPE & CHAIN
	MOTOR	2.2 KW X 3 HP
	SPEED	4.4 M / MIN
	DRIVE	GEARED MOTOR WITH BRAKE
POWER SOURCE	MAIN	AC 415V, 3 PH, 50 Hz
	LIGHTING	AC 230V, 1 PH, 50 Hz
OPERATION	PUSH BUTTON TYPE	
SAFETY DEVICES	SAFETY HOOKS	
	KEY SWITCH ON OPERATING PANEL	
	OVER TRAVEL LIMIT SWITCH	
CONTROL	RELAY LOGIC	
FINISHING	PAINTED GREY FINISH	

## AUTOMOBILE ELEVATOR

Automobile elevators are the best method to transfer vehicles from floor to floor. This is the most popular type of car lifting requirements. Automobile Elevators offers building planners and architects greater flexibility in design which can help curb the cost of land in expensive commercial area and allows for significant spaces saving as well as enhancing the resale value of the building. They also have application in moving vehicles from one floor to other floor with ease. These are ideal both for single floor as well as multi floor lifting. Elevators are available in both Hydraulic and traction category with speeds ranging from 20 to 60 mpm.

### ❖ ENTRANCE VIEW AT SITE

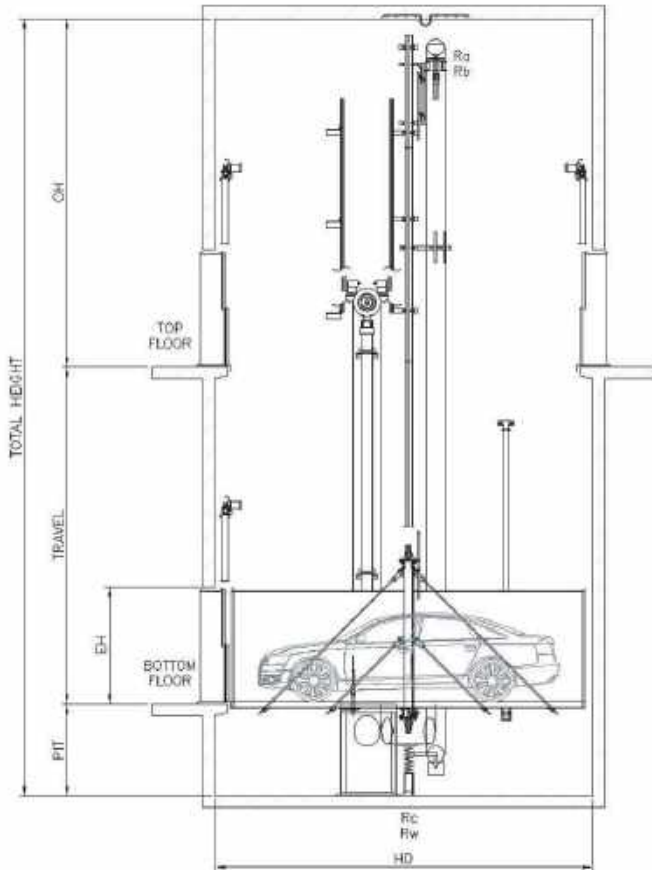


### ❖ TECHNICAL DATA

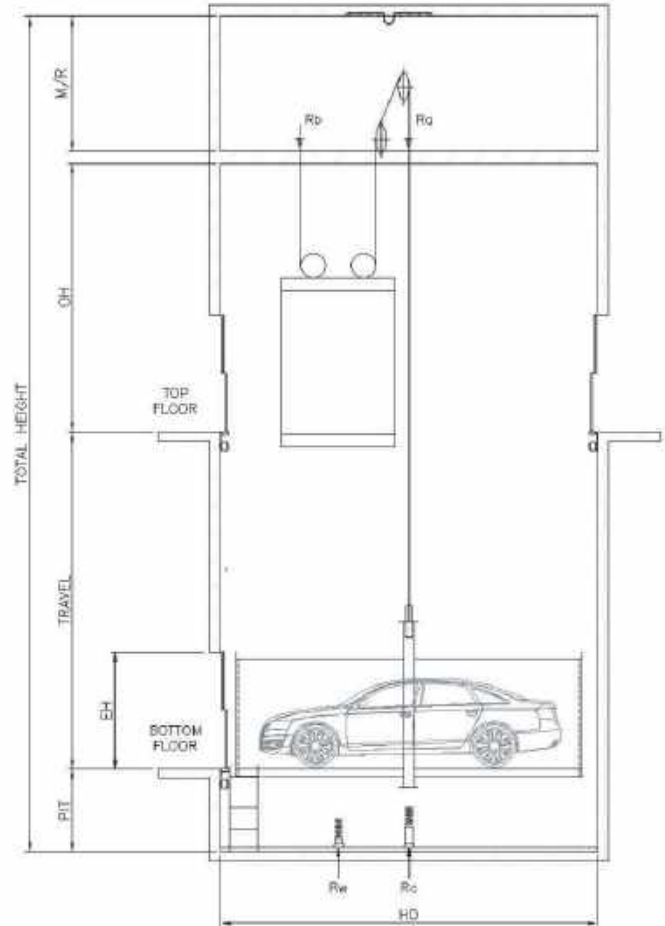
SECTION			2000 KG						2500 KG						3000 KG				
			ROPE TYPE			HYDRUALIC			ROPE TYPE			HYDRUALIC			ROPE TYPE		HYDRUALIC		
LOAD (KG)			2000						2500						3000				
SPEED (M / MIN.)			30	45	60	20	30	30	45	60	20	30	30	45	20	30			
MOTOR (KW)			11	15	22	24	37	15	18.5	30	29	37	18.5	22	37	48			
OVERHEAD (MM)			4200		4400		4200		4200		4400		4200		4200				
PIT DEPTH (MM)			1500						1500						1500				
POWER 230 V / 415 V	BUILDING NFB CAPA (A)	SIMPLEX	100/75	100/75	125/75	225/125	300/175	100/75	100/75	150/100	225/125	300/170	125/75	125/75	300/175	400/225			
		DUPLEX	100/75	100/75	175/100	450/250	600/350	100/75	125/100	175/100	450/150	600/350	175/100	175/100	600/350	750/450			
	BUILDING TRANSFORMER CAPA (KVA)	SIMPLEX	11	11	16	75	75	12	14	20	75	75	15	16	75	90			
		DUPLEX	19	19	27	110	140	21	23	34	110	140	26	27	140	180			
	SERVICE WIRE SIZE (MM2)	SIMPLEX	22/8	22/8	38/14	80/38	125/50	22/8	22/8	50/22	80/38	125/50	125/50	38/14	125/50	200/80			
		DUPLEX	60/14	60/14	100/22	250/100	325/150	60/14	60/22	100/38	250/100	325/150	60/22	60/22	325/150	325/150			
GROUNDING CONTRACTOR SIZE (MM2) ½			14/14			22/38		14/14			22/38		14/14		22/38		22/60		
CAPACITY AND ALLOWED DIMENSIONS			4800 (L) X 1800 (W) X 1700 (H)						5200 (L) X 2050 (W) X 1700 (H)						5200 (L) X 2050 (W) X 1700 (H)				
CAR INSIZE (CA X CB)			2350 X 5400						2500 X 6200						2500 X 6200				
HOISTWAY SIZE (HW X HD)	NORMAL	SIMPLEX	3650 X 5800			3450 X 5800			3800 X 6600			3600 X 6600			3800 X 6600		3600 X 6600		
		DUPLEX	7550 X 5800			7150 X 5800			7850 X 6600			7450 X 6600			7850 X 6600		7450 X 6600		
	THROUGH TYPE	SIMPLEX	3650 X 5850			3450 X 5850			3800 X 6650			3600 X 6650			3800 X 6650		3600 X 6650		
		DUPLEX	7550 X 5800			7150 X 5850			7850 X 6650			7450 X 6650			7850 X 6650		7450 X 6650		
M/R INSIDE (MW X MD)	NORMAL	SIMPLEX	4050 X 5800			2500 X 2500			4200 X 6600			2500 X 2500			4200 X 6600		2500 X 2500		
		DUPLEX	7950 X 5800			2500 X 5000			8250 X 6600			2500 X 5000			8250 X 6600		2500 X 5000		
	THROUGH TYPE	SIMPLEX	4050 X 5850			2500 X 2500			4200 X 6650			2500 X 2500			4200 X 6650		2500 X 2500		
		DUPLEX	7950 X 5850			2500 X 5000			8250 X 6650			2500 X 5000			8250 X 6650		2500 X 5000		
DOOR TYPE			2 PANEL UPSLIDING																
DOOR DIMENSION (DW X DH)			2350 X 1800						2500 X 1800						2500 X 1800				
REACTION LOAD	MACHINE	NORMAL	Ra	14300		15300		9000		18400		20000		13100		24500		13100	
			Rb	7700		7800		600		9000		9800		600		12200		700	
		THROUGH TYPE	Ra	17800		19100		9000		23000		25000		13100		30600		13100	
			Rb	9600		9700		600		11200		12200		600		15200		700	
	PIT	NORMAL	Rc	23000		31000		31700		32500		42500		36000		43100		51000	
			Rw	18000		26000		11100		26000		3700		12100		36700		19100	
		THROUGH TYPE	Rc	28700		38700		31700		40600		53100		36000		57600		51000	
			Rw	22500		32500		11100		32500		46000		12100		45900		13100	



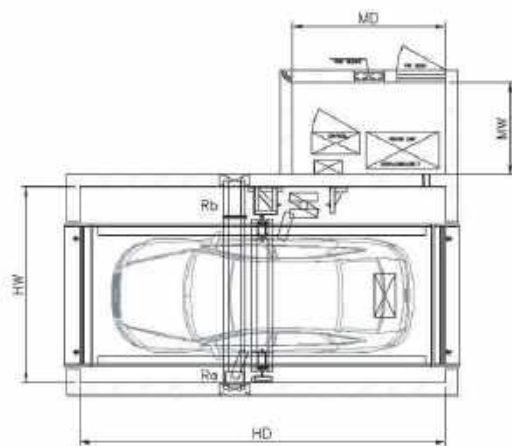
## AUTOMOBILE ELEVATOR



SECTION OF HOISTWAY

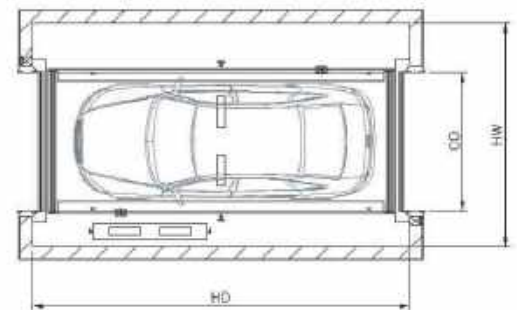


SECTION OF HOISTWAY



PLAN OF HOISTWAY

HOISTWAY AND M/R PLAN (HYDRAULIC TYPE)



PLAN OF HOISTWAY

HOISTWAY AND M/R PLAN (TRACTION ROPE TYPE)

## LANDMARK PROJECTS



Umiya Business Bay Bangalore  
Stack – 430 Cars



Unique Greens Thane  
Stack & Puzzle – 222 Cars



Unique Elita Santacruz  
-2 & 5 Over Ground Puzzle – 52 Cars



G Square Hyderabad  
Stack and Puzzle Park - 90 Cars



Universal Cubical Mumbai  
Stack – 50 Cars



Majestique Pune  
Puzzle - 52 Cars



Mehta Sunshine Heights, Mumbai  
Tower Parking system - 54 cars



DLH Sai Suman, Mumbai  
Tower parking system - 60 cars



Sudhanshu Imperia Mumbai  
Tower Park – 40 Cars



Universal Paradise Mumbai  
Puzzle – 30 Cars



Mumbai Shelter Mumbai  
Stack – 54 Cars



Global Port  
Puzzle – 197 Cars



## LANDMARK PROJECTS



K - Raheja Chennai  
Stack Park – 312 Cars



G-Corp Bangalore  
Stack – 428 Cars



Prizm Bangalore  
Puzzle – 26 Cars



Vamshiram Hyderabad  
Stack Park -160 Cars



Axis Mall Kolkata  
Rotary - 84 Cars, Puzzle - 72 Cars



GR Heights Bangalore  
Puzzle – 37 Cars



Eco Station Kolkata  
12 Mini Rotary – 158 Cars



NHAI Delhi  
Stack Park -170 Cars



Vijaya Bank Bangalore  
Puzzle – 10 Cars



Elenza Mumbai  
Tower Park - 81 Cars

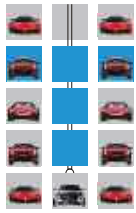


DLH Ashoka Mumbai  
Stack & Puzzle – 354 Cars



K-Raheja Hyderabad  
Stack Parking – 750 Cars





# TEDRA

The Space Makers

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