

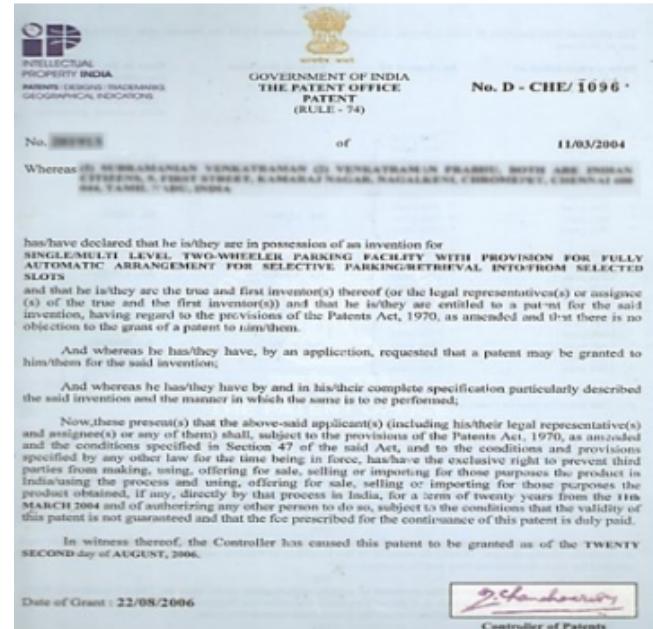
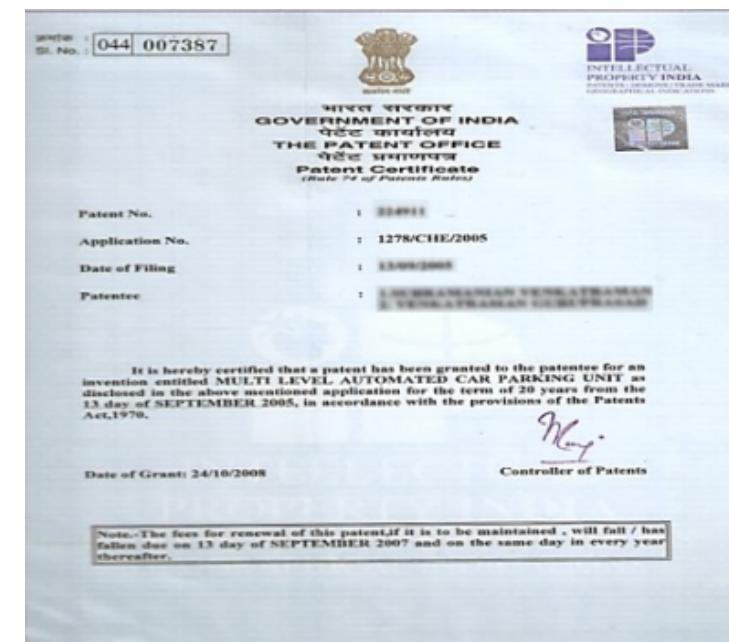
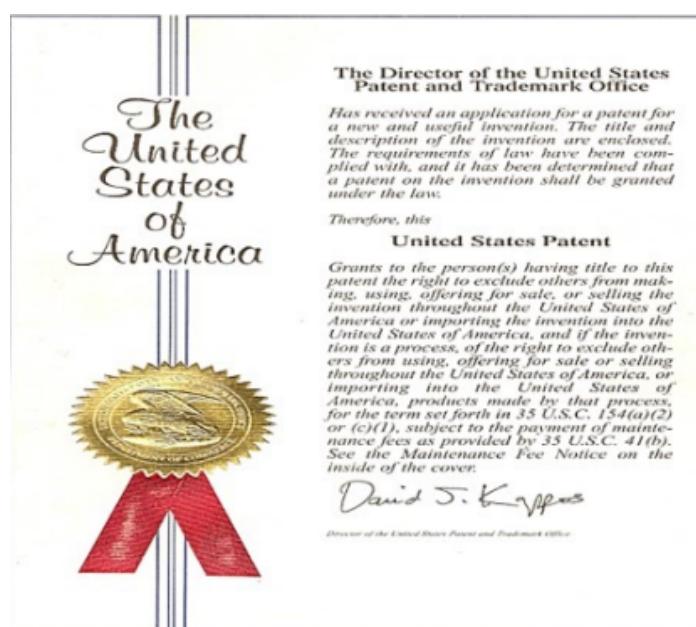
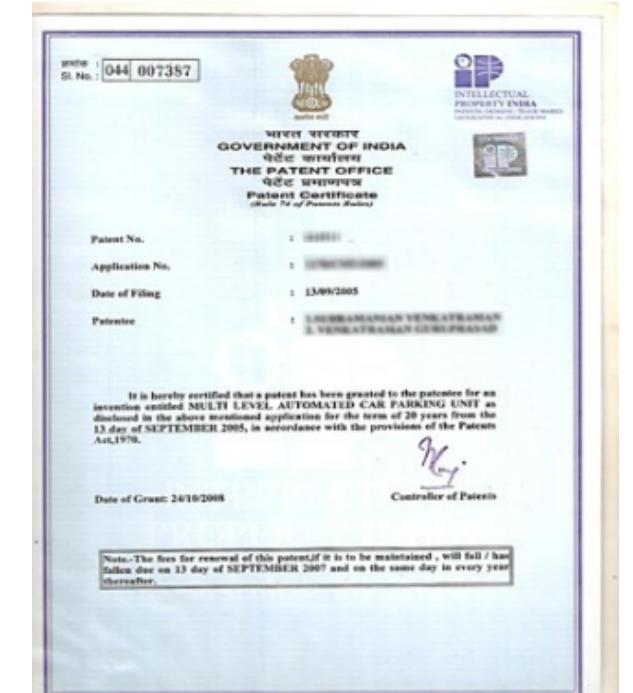


MECHCI Group
Since 1995

SHUTTLE STACKER PARKING SYSTEM



OUR PATENTS



Need of Multi Level Car Parking

-  **Scarcity of parking space.**
-  **Higher cost of Land ownership.**
-  **Increase in demand of cars in metros.**
-  **Congested car parking spaces.**
-  **High Traffic causing higher parking & retrieval time.**
-  **Less parking space at public spaces such as theatres, malls, Parks etc.**



SHUTTLE STACKER (SS) CAR PARKING SYSTEM



Shuttle Stacker Parking

SHUTTLE STACKER PARKING SYSTEM



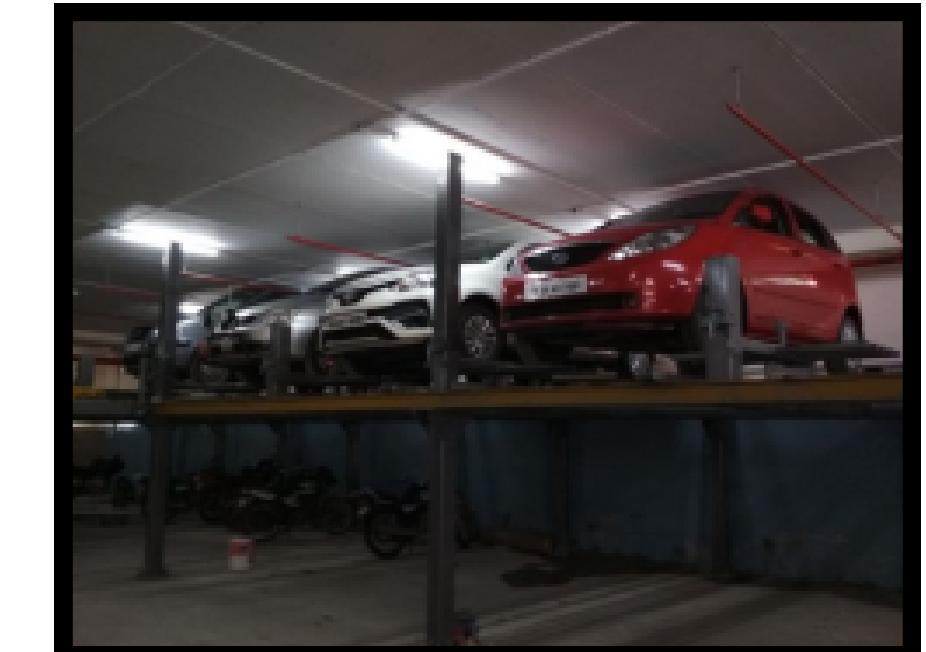
SHUTTLE PARKING SYSTEM IS ONE IN WHICH THE CAR IS LOADED INTO THE CAR LIFT AND THE CAR CAN BE PARKED IN THE FLOORS AT EACH FLOOR A SHUTTLE PICKS THE CAR FROM LIFT AND PARKS EITHER FRONT AND BACK OF THE LIFT OF LEFT AND RIGHT OF THE LIFT.

ADVANTAGES

1. BEST SUITED FOR BASEMENT PARKING .
2. ECONOMICAL PARKING. 3. LESS MOVING PARTS.
4. LESS POWER CONSUMPTION.
5. LESS MAINTENANCE.
6. SCALABLE

SPECIFICATION

1. LIFTING CAPACITY : UP TO 2500 KG
2. LIFTING HEIGHT : UP TO 13 M
3. LIFTING SPEED : UP TO 10 M/MIN
4. TRAVERSE SPEED : UP TO 15 M/MIN
5. POWER REQUIRED : 5 - 10 KW 6. VARIANTS : 2 (LEFT- RIGHT & FRONT-BACK)
7. PARKING METHOD : PIN / PALLET TYPE
8. ENTRIES / EXIT : MULTIPLE
9. DRIVE : MOTOR + CHAIN / ROPE



GENERAL TECHNICAL SPECIFICATION – SS PARKING – OPTION-1



Type	Shuttle Stack (SS) Parking – Front Back
Type of Loading	Pin Type / Pallet Type
No. Levels	2 To 15 Levels
Mode of Operation	Electrical
Power Requirement	<p>Power Requirement / Lifts :</p> <p>5.5 Kw (Up to 3 Levels), 7.5 Kw (4 to 6 Levels). 11 Kw (Above 6 Levels)</p> <p>For Shuttle : 1.75 Kw / Shuttle.</p> <p>For Carry Pallet : 1 Kw / Carry Pallet</p>
Loading Capacity	Up to 2500 Kg. For Sedan & Up to 3000 Kg for SUV
Dimensions	<p>Ground Floor Height : Minimum 3000 mm to Maximum – 4000 mm</p> <p>Car Bay Dimensions :</p> <p>For SUV : 2500 mm Width x 5400 mm Length x 2500 mm Height</p> <p>For Sedan : 2500 mm width x 5100 mm Length x 2250 mm Height</p> <p>Lift Dimensions : 3000 mm Width x 5500 mm Length x 2750 mm Height</p>
Working Speed (m/min)	<p>Lift Speed : Up to 20 m/min</p> <p>Carry Pallet Speed : Up to 15 m/min</p> <p>Pickup Pallet Speed : Up to 5 m/min</p>
Car Pallet Size (L x B x H)	<p>Small Cars: 4900 mm x 2200 mm x 225 mm</p> <p>SUV Cars : 5200 mm x 2200 mm x 225 mm</p>
Pin Type Size	<p>Front Pin Holder : 1500 mm & Rear Pin Holder 2000 mm with a gap of 1500 mm between Front Pin Holder and Rear Pin Holder.</p> <p>Through Pin Only in Lift</p>

GENERAL TECHNICAL SPECIFICATION - SS PARKING - OPTION-1



Type	Shuttle Stack (SS) Parking – Front Back
PLC	7" PLC with Any standard Industry Brand / ABB / Siemens
Limit Switches	To suit Project requirement - Any Standard Industry Brand / Honeywell / Jai Balaji
Control Panel Contact	To suit Project requirement - Standard / SEIMENS / ABB
Power Cables	Fire Retardant Cables - Panel Incoming 120 Sq. mm – Any class1 industry Brand
Distribution Cables	To suit Project requirement - RR Kabel / Polycab / any Standard Brand
Optical Sensors	To suit Project requirement - P&F Brand
Wire Rope	Up to 4 Levels - 14 MM DIA 6X36X CONSTRUCTION FMC WIRE ROPE Above 4 Levels - 16 MM DIA 6X36X CONSTRUCTION FMC WIRE ROPE
All Steel Structures	As per IS 2602
System Backup UPS	Up to 5KVA
Lift Locking	Hydraulic Locking at All Levels`
Reserve Bay	1 Reserve Bay / Floor in case of 2 Row Parking

GENERAL TECHNICAL SPECIFICATION - SS PARKING - OPTION-2



Type	Shuttle Stacker (SS) Parking – Left Right
Type of Loading	Pin Type / Pallet Type
No. Levels	2 To 15 Levels
Mode of Operation	Electrical
Power Requirement	<p>Power Requirement / Lifts :</p> <p>5.5 Kw (Up to 3 Levels), 7.5 Kw (4 to 6 Levels). 11 Kw (Above 6 Levels)</p> <p>For Shuttle : 1.75 Kw / Shuttle.</p> <p>For Carry Pallet : 1 Kw / Carry Pallet</p>
Loading Capacity	Up to 2500 Kg. For Sedan & Up to 3000 Kg for SUV
Dimensions	<p>Ground Floor Height : Minimum 3000 mm to Maximum – 4000 mm</p> <p>Car Bay Dimensions :</p> <p>For SUV : 2500 mm Width x 5400 mm Length x 2600 mm Height</p> <p>For Sedan : 2500 mm width x 5100 mm Length x 2400 mm Height</p> <p>Lift Dimensions : 3000 mm Width x 5500 mm Length x 2750 mm Height</p>
Working Speed (m/min)	<p>Lift Speed : Up to 20 m/min</p> <p>Carry Pallet Speed : Up to 15 m/min</p> <p>Pickup Pallet Speed : Up to 5 m/min</p>
Car Pallet Size (L x B x H)	<p>Small Cars: 4900 mm x 2200 mm x 225 mm</p> <p>SUV Cars : 5200 mm x 2200 mm x 225 mm</p>
Pin Type Size	Front Pin Holder : 1500 mm & Rear Pin Holder 2000 mm with a gap of 1500 mm between Front Pin Holder and Rear Pin Holder.

GENERAL TECHNICAL SPECIFICATION - SS PARKING - OPTION-2



Type	Shuttle Stacker (SS) Parking – Left Right
PLC	7" PLC with Any standard Industry Brand / ABB / Siemens
Limit Switches	To suit Project requirement - Any Standard Industry Brand / Honeywell / Jai Balaji
Control Panel Contact	To suit Project requirement - Standard / SEIMENS / ABB
Power Cables	Fire Retardant Cables - Panel Incoming 120 Sq. mm – Any class1 industry Brand
Distribution Cables	To suit Project requirement - RR Kabel / Polycab / any Standard Brand
Optical Sensors	To suit Project requirement - P&F Brand
Wire Rope	Up to 4 Levels - 14 MM DIA 6X36X CONSTRUCTION FMC WIRE ROPE Above 4 Levels - 16 MM DIA 6X36X CONSTRUCTION FMC WIRE ROPE
All Steel Structures	As per IS 2602
System Backup UPS	Up to 5KVA
Lift Locking	Hydraulic Locking at All Levels*
Reserve Bay	1 Reserve Bay / Floor in case of 2 Row Parking



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OUR CLIENTS



GALLERY

